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ABSTRACT

Detailed statistical tables on federal funds for research and development (R&D) activities are provided in this document. Tables are organized into the following sections: research, development, and R&D plant; R&D- agency, character of work, and performer; total research- agency, performer, and field of science; basic research- agency, performer, and field of science applied research- agency, performer, and field of science; development- agency and performer; R&D plant; total, basic and applied research performed at colleges and universities- agency and field of science; foreign performers in R&D; foreign performers- basic research; special foreign currency program; geographic distribution- R&D and R&D plant; Federal intramural personnel costs; and historical data (outlays) and obligations). In the tables, data for 1981 are considered to be accurate since they represent virtually completed transactions. Data for 1982 and 1983 are estimated since they do not represent final actions. The timing of the Federal Funds survey coincided with the third quarter FY 1982; therefore, the amounts reported for 1982 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 1982 represent administration budget proposals that had not been acted on. (Author/JN)

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detailed statistical tables

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NOTE: For trend comparisons, use only the historical data for fiscal years 1973-83 contained in tables C-112 through C-132 in this *Federal Funds*, Volume XXXI series. Do not use data published earlier. These tables incorporate changes made by the agencies in prior-year data to reflect program reclassifications. *Federal Funds for Research and Development Detailed Historical Tables: Fiscal Years 1967-83* an unpublished, computer-run series, are also available *gratis* on request from the NSF Division of Science Resources Studies.

general notes

The tables in this publication have been derived from the *Federal Funds for Research and Development*, Volume XXXI survey. This survey covered a later and more detailed classification of R&D programs in the 1983 Federal budget than the data that appeared in "Special Analysis K: Research and Development," issued in February 1982 as one of the documents of the *Budget of the United States Government, Fiscal Year 1983*. The data in these *Detailed Statistical Tables* show R&D funding levels as reported by 96 Federal agencies in April through July 1982. All agencies with R&D programs were covered.

R&D totals in these tables are given in both outlays and obligations. The R&D obligation data are further distributed by character of work, performer, field of science (for research but not development), and Federal R&D support by State. Obligations for research performance at universities and colleges by fields of science are also shown as are R&D plant data.

The amounts reported for each year of this survey include the obligations or outlays incurred in that year, regardless of the time the funds may have been authorized, appropriated, or received by an agency, and regardless of whether the funds are identified in an agency's budget specifically for research, development, or R&D plant.

In the tables, data for 1981 are considered to be actual since they represent virtually completed transactions. Data for 1982 and 1983 are estimated since they do not represent final actions. The timing of the *Federal Funds* survey coincided with the third quarter of fiscal year 1982; therefore, the amounts reported for 1982 reflect congressional appropriation actions as of that period, as well as apportionment and reprogramming decisions as of that time. Data for 1983 represent administration budget proposals that had not been acted on. The effects of later authorization, appropriation, deferral, and apportionment actions will be reflected in later surveys of this series.

In classifying the data, the agencies must rely on judgment to some extent. Most R&D programs are not shown as budget line items and have to be identified by respondents within larger programs. Judgment is also often involved in determining which funding areas constitute basic research, applied research, development, and specific fields of science.

R&D plant data are understated because of the difficulty encountered by some agencies in identifying R&D plant within contracts for research and development. The Department of Defense can identify only limited portions of R&D plant in contracts funded from the research and development, test, and evaluation (RDT&E) appropriation. The National Aeronautics and Space Administration faces a similar problem in reporting R&D plant data.

Despite the fact that the differences between the *Federal Funds* requirements and the internal reporting systems of many agencies may call for judgment, the reporting experience of most agencies and their interaction over the years with the National Science Foundation staff have considerably increased the reliability of the data.

Sometimes agencies revise their reporting concepts, making revisions in the current data that are important enough to warrant revisions of prior-year data. Some prior-year changes occur almost every year. Therefore, only the historical data contained in appendix C (tables C-112 through C-132) should be used instead of data in previously published appendix tables in the *Federal Funds* series.

The final report, *Federal Funds for Research and Development*, Volume XXXI, will be published separately. It will contain an analysis of the R&D portion of the 1983 Federal budget. A section of the report will cover an R&D analysis by budget function. The report will provide a number of text tables and charts but will not include the detailed statistical tables contained in this volume.

Inquiries relating to *Federal Funds*, Volume XXXI, should be directed to the National Science Foundation, Division of Science Resources Studies, Washington, D.C. 20550. Telephone: (202) 634-4636.

appendix a

technical notes

scope and method

During the period April through July 1982 a total of 34 Federal agencies and their subdivisions—96 individual respondents—submitted data in response to the *Annual Survey of Federal Funds for Research and Development*, Volume XXXI, conducted by the National Science Foundation (NSF) with initial distribution in February 1982. In nearly all cases the data received from the agencies were in terms of obligations and outlays incurred, or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents' budgets specifically for R&D activities. The exception was the National Aeronautics and Space Administration (NASA), for which the same kinds of transactions were reported in terms of budget plan, which approximates obligations.

Federal agencies provided R&D data earlier to the Office of Management and Budget (OMB) for inclusion in "Special Analysis K: Research and Development" in *The Budget of the United States Government, Fiscal Year 1983*, which was one of the budget documents presented to the Congress in February 1982. The R&D data in the OMB document and the *Federal Funds* survey were based on the same definitions and are reconcilable, but the data in the *Federal Funds* survey cover smaller R&D support agencies not covered by OMB and are classified in greater detail.

definitions

The definitions are essentially unchanged from prior *Federal Funds* surveys.

1. research, development, and r&d plant

This heading includes all direct, indirect, incidental, or related costs resulting from or necessary to research, development, and R&D plant, regardless of whether the research and development are performed by a Federal agency (intramurally) or performed by private individuals and organizations under grant or contract (extramurally). Research and development exclude routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

a. **Research** is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objectives of the sponsoring agency.

In **basic research** the objective of the sponsoring agency is to gain fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.

In **applied research** the objective of the sponsoring agency is to gain knowledge or understanding necessary for determining the means by which a recognized and specific need may be met.

b. **Development** is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. It excludes quality control, routine product testing, and production.

c. **R&D plant** (R&D facilities and fixed equipment, such as reactors, wind tunnels, and radio telescopes) includes acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land, for use in R&D activities at Federal or non-Federal installations. Excluded from the R&D plant category are expendable equipment and office furniture and equipment. Obligations for foreign R&D plant are limited to Federal funds for facilities located abroad and used in support of foreign research and development.

2. obligations and outlays

a. **Obligations** represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

b. **Outlays** represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated.

The obligations and outlays reported cover all transactions from all funds available to an agency from direct appropriations, trust funds, or special account receipts, corporate income, or other sources, including funds appropriated by the President, that the agency has received or expects to receive. The amounts reported for each year reflect obligations and outlays for that year, regardless of when the funds were originally authorized or received and regardless of whether they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

An agency making a transfer of funds to another agency includes such transfers in its report of obligations and outlays. The receiving agency does not report, for purposes of this survey, funds transferred to it from another agency. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for work performed in foreign countries include funds directly available to Federal agencies and special foreign currencies separately appropriated. The latter currencies are derived largely from provisions of Public Law 480, 1954, as amended.

3. cost coverage

Funds reported for research and development reflect full costs. In addition to costs of specific R&D projects, the applicable overhead costs are also included. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

4. fiscal year

The fiscal year in the Federal Government accounting period begins October 1 of a given year and ends September 30 of the following year; thus, fiscal year 1981 began on October 1, 1980, and ended September 30, 1981.

5. agency

An agency is an organization of the Federal Government whose principal executive officer reports to the President. The only exception is the Library of Congress, also included in the survey, whose executive officer reports to the Congress. The term subdivision refers to any major organizational unit of a reporting agency, such as a bureau, administration, office, or service.

6. performers

Performers are either intramural organizations accomplishing operating functions or extramural organizations or persons receiving support or providing services under a contract or grant.

a. **Intramural performers:** Agencies of the Federal Government. Their work is carried on directly by their own personnel. Obligations reported under this category are for activities performed directly by a reporting agency, or they represent funds that the agency transfers to another Federal agency for performance of work. The ultimate performer must be a Federal agency. If the ultimate performer is *not* a Federal agency, the funds so transferred are reported by the transferring agency under the appropriate extramural performer category (industrial firms, universities and colleges, other nonprofit institutions, etc.). Intramural performance includes the costs of supplies and equipment, essentially of an "off-the-shelf" nature, that are procured for use in intramural research and development. The cost of Federal personnel engaged in planning and administering intramural and extramural R&D programs are also included as part of the intramural performance total.

b. **Extramural performers:** All organizations outside the Federal sector that perform with Federal funds under contract or grant. Only those costs associated with actual extramural R&D performance are reported, but these would include costs of materials and supplies to carry out R&D activities. Costs of "off-the-shelf" supplies and equipment procured from extramural suppliers and required to support intramural research and development, however, are considered as part of the costs of intramural performance and not as part of the costs of extramural performance. Extramural performers are identified as follows:

(i) **Industrial firms:** Those organizations that may legally distribute net earnings to individuals or to other organizations.

(ii) **Universities and colleges:** Institutions engaged primarily in providing resident and/or accredited instruction for at least a 2-year program above the secondary school level. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in engineering and medicine, including affiliated hospitals; associated research institutes; and agricultural experiment stations.

(iii) **Other nonprofit institutions:** Private organizations, other than educational institutions, no part of whose net earnings inure to the benefit of a private stockholder or individual, and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit institutions.

(iv) **Federally funded research and development centers (FFRDC's):** R&D-performing organizations exclusively or substantially financed by the Federal Government that are supported by the Federal Government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for research and associated training purposes. Each center is administered either by an industrial firm, a university, or another nonprofit institution.

In general, all of the following criteria are met by an organization before it is included in the FFRDC category: (1) Its primary activities include one or more of the following: Basic research, applied research, development, or management of research and development (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination); (2) it is a separate operational unit within the parent organization or is organized as a separately incorporated organization; (3) it performs actual research and development or R&D management either upon direct request of the Federal Government or under a broad charter from the Federal Government, but in either case under the direct monitorship of the Federal Government; (4) it receives its major financial support (70 percent or more) from the Federal Government, usually from one agency; (5) it has, or is expected to have, a long-term relationship

with its sponsoring agency (about five years or more), as evidenced by specific obligations assumed by it and the agency; (6) most or all of its facilities are owned by or are funded under contract with the Federal Government; and (7) it has an average annual budget (operating and capital equipment) of at least $500,000.

(v) **State and local governments:** State and local government agencies, excluding State and local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such State and local educational institutions are included under the universities-and-colleges category in this survey.) Research and development under the State-and-local-government category are performed either directly by State or local agencies or by other organizations under grant or contract from such agencies. Regardless of the ultimate performer, Federal R&D funds directed to State and local governments are reported under the State-and-local-government category and no other.

(vi) **Foreign performers:** Foreign citizens, organizations, or governments, as well as international organizations, such as NATO, UNESCO, WHO, performing work abroad financed by the Federal Government. Excluded are payments to U.S. agencies, organizations, or citizens performing research and development abroad for the Federal Government; the survey does not seek information on "offshore" payments. Also excluded are payments to foreign scientists performing in the United States.

(vii) **Private individuals:** Individuals receiving a Federal R&D grant or contract award directly; in this case obligations are reported under "industrial firms."

7. fields of science

The fields of science in this survey are divided into eight broad field categories, each of them consisting of a number of detailed fields. The broad fields are life sciences, psychology, physical sciences, environmental sciences, mathematics and computer sciences, engineering, social sciences, and other sciences not elsewhere classified. The following listing presents the fields grouped under each of the broad fields, together with illustrative disciplines.

a. **Life sciences** consist of five detailed fields: biological (excluding environmental), environmental biology, agricultural, medical, and life sciences not elsewhere classified. The illustrative disciplines provided below under each of these detailed fields are not intended to be sharp definitions; they represent examples of disciplines generally classified under a given detailed field. A discipline, however, may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry could be reported as biological, agricultural, or medical, depending on the orientation of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would be under agricultural. Examples of disciplines under each of the detailed fields are as follows:

Biological (excluding environmental): anatomy; biochemistry; biology; biometry and biostatistics; biophysics; botany; cell biology; entomology and parasitology; genetics; microbiology; neuroscience (biological); nutrition; physiology; zoology; other biological, n.e.c.[1]

Environmental biology: ecosystem sciences; evolutionary biology; limnology; physiological ecology; population biology; population and biotic community ecology; systematics; other environmenal biology, n.e.c.[1]

Agricultural: agronomy; animal sciences; food science and technology; fish and wildlife; forestry; horticulture; plant sciences; soils and soil science; phytopathology; phytoproduction; agriculture, general; other agriculture, n.e.c.[1]

Medical: internal medicine; neurology; obstetrics and gynecology; ophthalmology; otolaryngology; pediatrics; preventive medicine; pathology; pharmacology; psychiatry; radiology; surgery; dentistry; pharmacy; veterinary medicine; other medical, n.e.c.[1]

Life sciences, n.e.c.[1]

b. **Psychology** deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology is divided into three categories: biological aspects, social aspects, and psychological sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Biological aspects: experimental psychology; animal behavior; clinical psychology; comparative psychology; ethology.

Social aspects: social psychology; educational, personnel, vocational psychology, and testing; industrial and engineering psychology; development and personality.

Psychological sciences n.e.c.[1]

c. **Physical sciences** are concerned with understanding of the material universe and its phenomena. They comprise the fields of astronomy, chemistry, physics, and physical sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; X-ray, Gamma-ray, neutrino astronomy.

Chemistry: inorganic; organo-metallic; organic; physical.

Physics: acoustics; atomic and molecular; condensed matter; elementary particle; nuclear structure; optics; plasma.

Physical sciences, n.e.c.[1]

d. **Environmental sciences** (terrestrial and extraterrestrial) are concerned (with one exception) with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect man's survival and welfare; they comprise the fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences not elsewhere classified. The one exception is that obligations for studies pertaining to life in the sea, or other bodies of water, are reported as support of oceanography and not biology. Examples of disciplines under each of these fields are as follows:

Atmospherics sciences: aeronomy; solar; weather modification; extraterrestrial atmospheres; meteorology.

Geological sciences: engineering geophysics; general geology; geodesy and gravity; geomagnetism; hydrology;

[1]Not elsewhere classified: Includes multidisciplinary projects within a broad field and single-discipline projects for which a separate field has not been assigned.

inorganic geochemistry; isotopic geochemistry; organic geochemistry; laboratory geophysics; paleomagnetism; paleontology; physical geography and cartography; seismology; soil sciences.

Oceanography: biological oceanography; chemical oceanography; physical oceanography; marine geophysics.

Environmental sciences, n.e.c.[1]

e. **Mathematics and computer sciences** employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing such symbols, and in the case of computer sciences, with the application of such methods to automated information systems. Examples of disciplines under each of these fields are as follows:

Mathematics: algebra; analysis; applied mathematics; foundations and logic; geometry; numerical analysis; statistics; topology.

Computer sciences: programming languages; computer and information sciences (general); design, development, and application of computer capabilities to data storage and manipulation; information sciences and systems; systems analysis.

Mathematics and computer sciences, n.e.c.[1]

f. **Engineering** is concerned with studies directed toward developing engineering principles or toward making specific scientific principles usable in engineering practice. Engineering is divided into eight fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials, and engineering not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Aeronautical: aerodynamics.

Astronautical: aerospace; space technology.

Chemical: petroleum; petroleum refining; process.

Civil: architectural; hydraulic, hydrologic; marine; sanitary and environmental; structural; transportation.

Electrical: communication; electronic; power.

Mechanical: engineering mechanics.

Metallurgy and materials: ceramic; mining; textile; welding.

Engineering, n.e.c.[1] agricultural; industrial and management; nuclear; ocean engineering systems.

g. **Social sciences** are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. These sciences include anthropology, economics, political science, sociology, and social sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Anthropology: archaeology; cultural and personality; social and ethnology; applied anthropology.

Economics: econometrics and economic statistics; history of economic thought; international economics; industrial, labor, and agricultural economics; macroeconomics; microeconomics; public finance and fiscal policy; theory; economic systems and development.

Political science: area or regional studies; comparative government; history of political ideas; international relations and law; national political and legal systems; political theory; public administration.

Sociology: comparative and historical; complex organizations; culture and social structure; demography; group interactions, social problems and social welfare; sociological theory.

Social sciences, n.e.c.[1] linguistics; research in education; research in history; socioeconomic geography; research in law, e.g., attempts to assess the impact on society of legal systems and practices.

h. **Other sciences not elsewhere classified** includes multidisciplinary and interdisciplinary projects that cannot be classified within one of the broad fields of science.

8. geographic distribution of 1980 r&d obligations

a. Nine agencies participated in the survey covering the geographic distribution of obligations for research and development and R&D plant. These 9 agencies accounted for 97 percent of total Federal R&D and R&D plant obligations in 1981. The respondents were the Departments of Agriculture (USDA); Commerce (including the Energy Research and Technology Administration); Defense (DOD; Health and Human Services (HHS); the Interior; and Transportation (DOT); also, the Environmental Protection Agency (EPA); NASA; and NSF.

b. Data were requested for the "actual" year 1981 in terms of the principal location (State or outlying area) where the work was performed by the prime contractor, grantee, or intramural organization. When this information was not available in their records, the respondents were asked to assign the obligations to the State, outlying area, or office abroad where the headquarters of the U.S. prime contractor, grantee, or intramural organization was located.

c. Obligations were reported for research and development as a combined amount.

d. Specifically omitted from the geographic survey were R&D obligations to foreign performers and obligations for R&D plant used in support of foreign performers. Foreign performer data, by country, are reported in another part of the *Federal Funds* survey.

changes in reporting

Responses from the agencies in this survey, as in the previous ones, reflect revisions of estimates for the latest two years of the previous report, in this case fiscal years 1981 and 1982. Such revision is part of the budgetary cycle. From time to time responses also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When this occurs, NSF requires the agencies to provide revised prior-year data to maintain consistency and comparability with the most recent concepts.

limitations of the data

Funds for research and development are reported on a 3-year basis comparable with the 1983 budget, upon which the data are based. The respondents have reconciled the data reported here with amounts for research and development

provided to OMB for the 1983 budget. The amounts reported for each year, as already stated, are the obligations or outlays incurred in that year, regardless of when the funds were authorized or received by an agency and regardless of whether the funds were identified in the agency's budget specifically for research, development, and/or R&D plant.

Data submitted by the Federal agencies for 1981 are considered to be actual since they represent virtually completed transactions. Amounts reported for 1982 and 1983 are estimates in that they are subject to further appropriation, apportionment, or deferral decisions. The effects of these and other, later actions on 1982 and 1983 outlays and obligations will be reflected in the next report.

Respondent judgment is often necessary in classifying the data. Most agency R&D programs must be separated by agency respondents from other, larger programs because they are not identified as budget-line items. R&D programs, once identified, must then be further subdivided into the survey categories: Basic research, applied research, development, performers, and fields of science. Over the years, however, the participating agencies, have developed increasing skill and consistency in meeting the survey requirements.

Some agencies have not been able to report the full cost of research and development. For example, the headquarters costs of planning and administering R&D programs of the DOD (estimated at a fraction of 1 percent of the DOD R&D total) are not included because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also to some extent underreported because of the difficulty encountered by some agencies, particularly DOD and NASA, in identifying and reporting these data. While DOD reports obligations for R&D plant under the construction appropriation, DOD is able to identify only a small portion of the R&D plant support within R&D contracts that are funded from the RDT&E appropriation. NASA cannot separately identify those portions of industrial R&D contracts applicable to R&D plant but subsumes R&D plant data in the R&D data covering industrial performance; R&D plant data for other performing sectors, however, are reported by NASA.

relation to other reports

1. federal support to universities and colleges

NSF conducts a separate survey covering Federal support to individual universities and colleges. This survey is based on data provided by the Federal agencies under the reporting system established by the Committee on Academic Science and Engineering (CASE) of the Federal Council for Science and Technology. The reports resulting from these surveys are entitled *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions* and often are referred to as the CASE reports.

Both the CASE and *Federal Funds* reports provide data on Federal obligations for research and development and R&D plant to universities and colleges and to university-administered FFRDC's. The CASE report, however, is based on obligations of Federal agencies to each individual academic institution, whereas the *Federal Funds* report is concerned with obligations to universities and colleges as a performer *group*. The CASE report additionally includes funds for non-R&D activities, such as science education and nonscience support. Further, the CASE survey is based on reports of only 15 agencies (USDA; Commerce; DOD; the Departments of Education; Energy; HHS; the Departments of Housing and Urban Development; the Interior; and Labor; DOT; EPA; NASA; NSF; the Agency for International Development; and the Nuclear Regulatory Commission), whereas the *Federal Funds* survey is composed of obligations of all agencies. The 15 respondents to CASE, however, account for more than 99 percent of total Federal R&D support to universities and colleges and all obligations to university-administered FFRDC's.

The different reporting procedures have led to the reporting of different totals to the CASE and *Federal Funds* surveys, as follows:

a. The obligations for research and development to universities and colleges reported for *Federal Funds* in 1981 amounted to $4,478 million, or $69 million more than the amount reported for CASE.

b. The R&D obligation total for university-administered FFRDC's, as reported to *Federal Funds*, was $1,829 million in 1981, or $4 million more than reported for CASE. For *Federal Funds* $195 million subcontracted by the NASA university-administered Jet Propulsion Laboratory was included in ultimate-performer categories, whereas for CASE the subcontracted amount was included in the R&D obligations to FFRDC's administered by universities.

c. Total R&D plant obligations to universities and colleges reported to the *Federal Funds* survey were $37 million in 1981, or $7 million less than the amount reported to the CASE survey.

d. Total R&D plant obligations to university-administered FFRDC's, as reported to *Federal Funds*, were $371 million in 1981, or $49 million more than reported to CASE.

The following factors should also be considered in comparing the data appearing in the two reports:

For *Federal Funds* each agency includes as part of its obligations the amounts transferred to other agencies for R&D activities. A receiving agency does not report funds transferred from another agency. In the CASE survey, by contrast, the data are reported by the agency that makes the *final* distribution of the funds to a given institution. Thus, for the CASE survey, agencies include funds received from other agencies and exclude funds transferred to other agencies, the reverse of the *Federal Funds* process. Although such transfers should balance each other out with no resulting changes in total R&D obligations, these reverse reporting practices add to the possibility of differences between the two reports.

The CASE responses are in many cases prepared by different operating units within each agency from those that prepare the *Federal Funds* responses. The CASE data are also collected several months earlier than the *Federal Funds* data. Theoretically these conditions should not add to reporting differences, but in practice differences do arise.

2. special analyses, budget of the united states

In a section of *Special Analyses, Budget of the United States Government,* OMB publishes estimates of obligations and outlays for research, development, and R&D plant. These data, as shown in "Special Analysis K: Research and Development" in the 1983 budget, did not provide as much detail on character of work, performers, fields of science, or geographic distribution as did the *Federal Funds* survey.

"Special Analysis K" and *Federal Funds* utilized the same definitions for research and development and for R&D plant. The estimates for research and development published in the two reports are comparable, even though minor differences exist. The comparison between the two reports is as follows:

Total Federal R&D obligations
(Billions of dollars)

	FY 1981	FY 1982	FY 1983
Federal Funds	$34.9	$39.0	$43.0
Special Analysis K	35.0	38.8	43.0

3. federal r&d funding by budget function: fiscal years 1981-83

NSF published a special report under the above title, providing an analysis of Federal R&D programs by budget function categories. The *Federal Funds, Volume XXXI* survey, by contrast, reported on R&D funding by agencies rather than functional categories. The *Federal Funds* report provided obligation data rather than budget authority data, which formed the basis for the function report. The R&D budget authority data for 1981-83 in the function report were based on information provided to OMB by the agencies as background for "Special Analysis K" in the 1983 budget. Further program information was based on budget justification documents of the leading R&D support agencies and information provided directly to NSF by some of the smaller agencies.

4. other reports

a. Agencies may classify their R&D programs for purposes other than those for which the *Federal Funds* survey is conducted. Definitions and guidelines that are suitable to these other purposes may result in information that is not comparable with the data transmitted to NSF for *Federal Funds.*

appendix b

Federally Funded Research and Development Centers, Fiscal Years 1981-83

department of defense

office of the secretary of defense

Administered by other nonprofit institutions:

Institute for Defense Analyses (IDA), Arlington, Virginia

department of the navy

Administered by universities and colleges:

Center for Naval Analyses (University of Rochester), Arlington, Virginia

department of the air force

Administered by universities and colleges:

Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, Massachusetts

Administered by other nonprofit institutions:

Aerospace Corporation, El Segundo, California

C³ Division (MITRE Corporation),[1] Bedford, Massachusetts

Project Air Force (RAND Corporation),[2] Santa Monica, California

department of health and human services

national institutes of health

Administered by industrial firms:

Frederick Cancer Research Center (Litton Bionetics, Inc., Litton Industries), Frederick, Maryland

[1]Only the C³ Division of the MITRE Corporation is reported as an FFRDC. All other agency support to MITRE is reported under "other nonprofit institutions excluding FFRDC's."

[2]Only the Project Air Force portion of the RAND Corporation is reported as an FFRDC. All other agency support to RAND is reported under "nonprofit institutions excluding FFRDC's."

department of energy

Administered by industrial firms:

Bettis Atomic Power Laboratory (Westinghouse Electric Corp.), Pittsburgh, Pennsylvania

Energy Technology Engineering Center (Rockwell International Corporation), Santa Susana, California

Hanford Engineering Development Laboratory (Westinghouse-Hanford Corp.), Richland, Washington

Idaho National Engineering Laboratory (EG&G Idaho, Inc.); Exxon Nuclear Idaho Co.; Argonne National Laboratory, West; Westinghouse Electric Corp.), Idaho Falls, Idaho

Knolls Atomic Power Laboratory (General Electric Company), Schenectady, New York

Mound Laboratory (Monsanto Research Corp.), Miamisburg, Ohio

Oak Ridge National Laboratory (Union Carbide Corp.), Oak Ridge, Tennessee

Sandia National Laboratories (Western Electric Co., Inc.-Sandia Corp.), Albuquerque, New Mexico

Savannah River Laboratory (E.I. duPont de Nemours & Co., Inc.), Aiken, South Carolina

Administered by universities and colleges:

Ames Laboratory (Iowa State University of Science and Technology), Ames, Iowa

Argonne National Laboratory (University of Chicago and Argonne Universities Assn.), Argonne, Illinois

Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, New York

E. O. Lawrence Berkeley Laboratory (University of California), Berkeley, California

E. O. Lawrence Livermore National Laboratory (University of California), Livermore, California

Fermilab (Universities Research Association, Inc.), Batavia, Illinois

Los Alamos National Laboratory (University of California), Los Alamos, New Mexico

Oak Ridge Institute of Nuclear Studies (Oak Ridge Associated Universities), Oak Ridge, Tennessee

Plasma Physics Laboratory (Princeton University), Princeton, New Jersey

Stanford Linear Accelerator Center (Stanford University), Stanford, California

Administered by other nonprofit institutions:

Pacific Northwest Laboratory (Battelle Memorial Institute), Richland, Washington

Solar Energy Research Institute (Midwest Research Institute), Golden, Colorado

national aeronautics and space administration

Administered by universities and colleges:

Jet Propulsion Laboratory (California Institute of Technology), Pasadena, California

national science foundation

Administered by universities and colleges:

Cerro Tololo Inter-American Observatory (Association of Universities for Research in Astronomy, Inc.), La Serena, Chile

Kitt Peak National Observatory (Association of Universities for Research in Astronomy, Inc.), Tucson, Arizona

National Astronomy and Ionosphere Center (Cornell University), Arecibo, Puerto Rico

National Center for Atmospheric Research (University Corporation for Atmospheric Research), Boulder, Colorado

National Radio Astronomy Observatory (Associated Universities, Inc), Green Bank, West Virginia

Sacramento Peak Observatory (Association of Universities for Research in Astronomy, Inc.), Sunspot, New Mexico

appendix c

detailed statistical tables

Research, Development, and R&D Plant

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notes

- Estimates for 1983 are based on *The Budget of the United States Government, Fiscal Year 1983*, as submitted to Congress by the administration, and do not reflect subsequent appropriations and apportionment actions.
- Details may not add to totals because of rounding.
- Asterisks appearing in lieu of figures indicate that the amounts are less than $50,000 or less than .05 percent.
- The abbreviation "FFRDC's" appearing in statistical tables refers to federally funded research and development centers.
- Within the Department of Agriculture the Economic Research Service and the Statistical Reporting Service replace the Economics and Statistics Service; the headings Agricultural Research Service and Cooperative State Research Service replace the headings Agricultural Research and Cooperative Research that were formerly included within the Science and Education Administration; the Human Nutrition Information Service is a new heading.
- In tables showing extramural performers, obligations of the Department of Agriculture to agricultural experiment stations are included within obligations to universities and colleges.
- The proposed Energy Research and Technology Administration replaces the Department of Energy and is shown within the Department of Commerce.
- Defense Agencies within the Department of Defense include the Defense Advanced Research Projects Agency, the Defense Nuclear Agency, the Defense Communications Agency, the Defense Mapping Agency, the Defense Logistics Agency, the Uniformed Services University of the Health Sciences, and technical support, Joint Chiefs of Staff/Office of the Secretary of Defense.
- The Bonneville Power Administration, formerly within the Department of Energy, is shown within the Department of the Interior.
- The Martime Administration, formerly within the Department of Commerce, is shown within the Department of Transportation.
- The Foundation for Education Assistance replaces the Department of Education.
- R&D data reported by the National Aeronautics and Space Administration are in terms of budget plan rather than obligations.
- The historical tables for Volume XXXI, providing R&D data for 1973 through 1983 (C-112 through C-132), are not comparable with totals for those years in appendix tables issued to accompany earlier *Federal Funds* reports. Some prior-year changes occur almost every year, thus changing totals in many categories.

For trend comparisons, use only these tables, appendix C, for Volume XXXI. Do not use the earlier tables in the *Federal Funds* series.

TABLE C-1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT: FISCAL YEARS 1981, 1982, AND 1983

(MILLIONS OF DOLLARS)

ITEM	ACTUAL, 1981	ESTIMATES 1982	% CHG 1981-1982	1983	% CHG 1982-1983
TOTAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	35,785.9	39,316.8	9.9%	42,381.5	7.8%
RESEARCH AND DEVELOPMENT	34,179.2	37,621.6	10.1	41,173.6	9.4
R&D PLANT	1,606.7	1,695.3	5.5	1,207.9	-28.7
TOTAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	36,403.1	40,438.0	11.1	44,272.4	9.5
RESEARCH AND DEVELOPMENT	34,917.4	38,954.1	11.6	42,973.8	10.3
PERFORMERS:					
FEDERAL INTRAMURAL 1/	8,728.8	9,645.1	10.5	10,164.3	5.4
INDUSTRIAL FIRMS	16,260.6	19,212.3	18.2	22,442.6	16.8
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	1,413.9	1,476.9	4.5	1,441.9	-2.4
UNIVERSITIES AND COLLEGES	4,478.0	4,583.5	2.4	4,720.0	3.0
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	1,828.5	1,889.8	3.3	1,962.8	3.9
OTHER NONPROFIT INSTITUTIONS	1,120.2	1,112.3	-.7	1,165.7	4.8
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	525.2	490.6	-6.6	558.2	13.8
STATE AND LOCAL GOVERNMENTS	222.2	201.7	-9.2	204.5	1.4
FOREIGN	340.0	342.0	.6	313.8	-8.2
RESEARCH	12,212.8	12,595.0	3.1	13,264.9	5.3
PERFORMERS:					
FEDERAL INTRAMURAL 1/	4,034.2	4,152.3	2.9	4,402.8	6.0
INDUSTRIAL FIRMS	1,958.3	1,974.8	.8	2,137.1	8.2
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	351.3	417.5	18.8	407.9	-2.3
UNIVERSITIES AND COLLEGES	3,920.2	3,996.9	2.0	4,130.1	3.3
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	940.6	1,019.2	8.4	1,107.5	8.7
OTHER NONPROFIT INSTITUTIONS	705.2	697.6	-1.1	721.5	3.4
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	67.7	87.5	29.2	93.5	6.8
STATE AND LOCAL GOVERNMENTS	129.3	123.5	-4.5	140.6	13.9
FOREIGN	106.0	125.8	18.7	123.8	-1.6
FIELDS OF SCIENCE:					
LIFE SCIENCES	4,435.6	4,593.0	3.5	4,735.0	3.1
PSYCHOLOGY	208.9	214.8	2.8	258.0	20.1
PHYSICAL SCIENCES	2,220.5	2,510.1	13.0	2,846.3	13.4
ENVIRONMENTAL SCIENCES	1,121.1	1,092.8	-2.5	1,097.7	.5
MATHEMATICS AND COMPUTER SCIENCES	278.9	310.6	11.3	356.5	14.8
ENGINEERING	3,071.5	3,136.9	2.1	3,172.3	1.1
SOCIAL SCIENCES	497.4	405.8	-18.4	397.8	-2.0
OTHER SCIENCES, NEC	378.8	331.1	-12.6	401.3	21.2
BASIC RESEARCH	5,041.3	5,310.9	5.3	5,765.2	8.6
PERFORMERS:					
FEDERAL INTRAMURAL 1/	1,301.8	1,396.2	7.2	1,541.6	10.4
INDUSTRIAL FIRMS	292.9	316.6	8.1	383.5	21.2
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	73.3	80.5	9.8	87.8	9.1
UNIVERSITIES AND COLLEGES	2,503.2	2,618.0	4.6	2,758.9	5.4
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	490.6	514.2	4.8	590.8	14.9
OTHER NONPROFIT INSTITUTIONS	313.1	315.8	.8	329.9	4.5
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	8.6	8.2	-5.3	9.4	14.8
STATE AND LOCAL GOVERNMENTS	26.5	28.4	6.9	32.3	14.0
FOREIGN	31.2	33.1	6.2	31.0	-6.2
FIELDS OF SCIENCE:					
LIFE SCIENCES	2,223.9	2,330.0	4.8	2,428.3	4.2
PSYCHOLOGY	91.0	92.3	1.4	100.0	8.4
PHYSICAL SCIENCES	1,324.9	1,432.0	8.1	1,650.4	15.2
ENVIRONMENTAL SCIENCES	532.8	523.7	-1.7	559.4	6.8
MATHEMATICS AND COMPUTER SCIENCES	140.4	164.9	17.5	185.5	12.5
ENGINEERING	526.0	587.9	11.8	655.4	11.5
SOCIAL SCIENCES	137.0	121.5	-11.3	124.3	2.3
OTHER SCIENCES, NEC	65.4	58.6	-10.4	62.0	5.8
APPLIED RESEARCH	7,171.5	7,284.1	1.6	7,499.7	3.0
PERFORMERS:					
FEDERAL INTRAMURAL 1/	2,732.4	2,756.2	.9	2,861.2	3.8
INDUSTRIAL FIRMS	1,665.4	1,658.2	-.4	1,753.6	5.8
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	278.1	337.0	21.2	320.1	-5.0
UNIVERSITIES AND COLLEGES	1,416.9	1,378.9	-2.7	1,371.3	-.6
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	450.0	504.9	12.2	516.8	2.3
OTHER NONPROFIT INSTITUTIONS	392.1	381.9	-2.6	391.6	2.5
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	59.1	79.3	34.3	84.1	6.0
STATE AND LOCAL GOVERNMENTS	102.8	95.1	-7.5	108.3	13.9
FOREIGN	74.8	92.7	23.9	92.8	.1
FIELDS OF SCIENCE:					
LIFE SCIENCES	2,211.8	2,263.1	2.3	2,306.7	1.9
PSYCHOLOGY	117.9	122.5	3.9	158.0	29.0
PHYSICAL SCIENCES	895.6	1,078.0	20.4	1,195.9	10.9
ENVIRONMENTAL SCIENCES	588.3	569.1	-3.3	538.3	-5.4
MATHEMATICS AND COMPUTER SCIENCES	138.6	145.6	5.1	171.0	17.4
ENGINEERING	2,545.5	2,549.0	.1	2,517.0	-1.3
SOCIAL SCIENCES	360.5	284.3	-21.1	273.5	-3.8
OTHER SCIENCES, NEC	313.5	272.5	-13.1	339.3	24.5

CONTINUED ON NEXT PAGE

TABLE C-1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT: FISCAL YEARS 1981, 1982, AND 1983

(MILLIONS OF DOLLARS)

- CONTINUED

ITEM	ACTUAL, 1981	ESTIMATES			
		1982	% CHG 1981-1982	1983	% CHG 1982-1983
DEVELOPMENT	22,704.6	26,359.1	16.1%	29,708.9	12.7%
PERFORMERS:					
FEDERAL INTRAMURAL 1/	4,694.6	5,492.8	17.0	5,761.5	4.9
INDUSTRIAL FIRMS	14,302.3	17,237.5	20.5	20,305.5	17.8
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	1,062.6	1,059.4	-.3	1,034.0	-2.4
UNIVERSITIES AND COLLEGES	557.8	586.6	5.2	589.9	.6
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	887.9	870.6	-2.0	855.2	-1.8
OTHER NONPROFIT INSTITUTIONS	415.0	414.7	-.1	444.2	7.1
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	457.5	403.1	-11.9	464.7	15.3
STATE AND LOCAL GOVERNMENTS	92.9	78.3	-15.7	63.9	-18.4
FOREIGN	234.0	216.2	-7.6	190.0	-12.1
R&D PLANT	1,485.7	1,483.9	-.1	1,298.6	-12.5
PERFORMERS SUPPORTED:					
FEDERAL INTRAMURAL	468.0	460.3	-1.6	559.2	21.5
INDUSTRIAL FIRMS	302.1	188.8	-37.5	73.1	-61.3
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	246.5	294.7	19.5	189.5	-35.7
UNIVERSITIES AND COLLEGES	37.0	32.9	-11.1	45.9	39.3
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	370.9	433.2	16.8	274.5	-36.6
OTHER NONPROFIT INSTITUTIONS	41.3	61.6	49.1	146.2	137.4
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	15.1	8.1	-46.3	5.3	-34.3
FOREIGN	4.8	4.2	-12.1	4.9	14.9

1/ COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS ARE COVERED AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1981	ESTIMATES		1981	ESTIMATES	
		1982	1983		1982	1983
TOTAL, ALL AGENCIES	36,403.1	40,438.0	44,272.4	35,785.9	39,316.8	42,381.5
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	794.7	842.0	869.2	782.5	845.8	859.8
AGRICULTURAL COOPERATIVE SERVICE	1.7	1.8	1.4	1.3	1.8	1.4
AGRICULTURAL MARKETING SERVICE	1.1	1.5	-	1.2	1.5	-
AGRICULTURAL RESEARCH SERVICE	411.6	446.2	475.4	425.9	441.9	467.0
COOPERATIVE STATE RESEARCH SERVICE	199.4	221.2	232.1	199.0	226.6	228.6
ECONOMIC RESEARCH SERVICE	39.3	39.4	40.6	38.0	39.1	40.3
FOREST SERVICE	129.3	110.8	98.4	101.8	114.9	100.2
HUMAN NUTRITION INFORMATION SERVICE	-	9.2	8.3	-	5.9	7.6
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	3.9	4.0	3.9	6.9	6.2	5.8
OFFICE OF TRANSPORTATION	.9	1.0	.9	.9	1.0	.9
STATISTICAL REPORTING SERVICE	7.5	7.0	8.0	7.5	7.0	8.0
DEPARTMENT OF COMMERCE, TOTAL	6,225.7	5,848.4	4,871.9	6,472.7	6,526.8	4,997.0
BUREAU OF THE CENSUS	3.9	3.8	4.1	3.8	3.6	4.1
ECONOMIC DEVELOPMENT ADMINISTRATION	28.1	8.4	-	35.5	9.4	3.4
ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION 1/	5,896.4	5,558.6	4,634.0	6,125.9	6,221.6	4,740.1
NATIONAL BUREAU OF STANDARDS	83.0	99.3	83.5	84.4	93.5	85.8
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	202.2	166.3	140.8	209.0	183.5	150.8
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	10.9	11.3	8.9	12.9	14.2	12.2
OFFICE OF THE SECRETARY	-	.1	-	.1	.2	-
PATENT AND TRADEMARK OFFICE	1.1	.6	.7	1.1	.6	.7
DEPARTMENT OF DEFENSE, TOTAL	16,786.3	20,887.5	24,885.5	15,993.0	19,079.0	23,042.5
DEPARTMENT OF THE ARMY	3,257.0	3,730.0	4,627.2	3,123.7	3,550.3	4,233.8
MILITARY FUNCTIONS	3,226.7	3,701.0	4,596.8	3,093.7	3,521.3	4,203.4
MILITARY CONSTRUCTION	9.6	22.9	28.4	5.8	9.2	19.3
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	131.1	146.9	145.6	129.9	146.0	145.2
RDT&E APPROPRIATION	3,086.0	3,531.2	4,422.8	2,958.0	3,366.1	4,038.9
CIVIL FUNCTIONS (CORPS OF ENGINEERS)	30.3	29.0	30.4	30.0	29.0	30.4
DEPARTMENT OF THE NAVY	5,103.9	5,930.7	6,378.6	4,916.9	5,570.9	6,107.5
MILITARY CONSTRUCTION	18.0	25.6	26.0	12.2	17.0	17.2
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	120.2	141.4	142.4	119.3	141.1	142.2
RDT&E APPROPRIATION	4,965.5	5,759.6	6,206.8	4,782.9	5,411.6	5,949.1
SPECIAL FOREIGN CURRENCY PROGRAM	.2	4.1	3.4	2.5	1.2	1.0
DEPARTMENT OF THE AIR FORCE	7,128.8	9,494.1	11,604.0	6,756.6	8,405.8	10,684.0
MILITARY CONSTRUCTION	108.6	80.3	124.0	87.0	49.6	96.0
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	333.7	392.7	397.1	328.7	386.9	391.0
RDT&E APPROPRIATION	6,686.5	9,051.1	11,082.9	6,340.9	7,969.3	10,197.0
DEFENSE AGENCIES	1,255.6	1,681.8	2,217.3	1,160.0	1,508.6	1,965.0
MILITARY CONSTRUCTION	-	.5	.2	-	-	-
RDT&E APPROPRIATION	1,255.6	1,681.3	2,217.1	1,160.0	1,508.1	1,964.8
DIRECTOR OF TEST & EVALUATION, DEFENSE	41.1	50.9	58.4	35.7	43.4	52.2
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,950.9	4,002.8	4,172.4	3,997.5	3,992.1	4,087.7
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	239.7	259.0	288.8	251.1	263.1	280.6
CENTERS FOR DISEASE CONTROL	74.8	70.5	72.0	83.0	75.1	73.6
FOOD & DRUG ADMINISTRATION	72.6	74.7	109.7	57.6	59.2	63.3
HEALTH CARE FINANCING ADMINISTRATION	38.6	29.5	30.0	35.4	29.5	30.0
HEALTH RESOURCES ADMINISTRATION	5.0	2.5	-	3.7	4.3	3.4
HEALTH SERVICES ADMINISTRATION	20.3	4.0	1.9	16.9	6.9	4.3
HUMAN DEVELOPMENT SERVICES	73.7	61.3	64.5	85.5	70.6	59.8
NATIONAL INSTITUTES OF HEALTH	3,355.5	3,454.8	3,554.1	3,392.2	3,423.9	3,516.3
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	33.1	16.6	16.9	37.2	30.0	23.3
OFFICE OF THE SECRETARY	19.5	13.4	14.7	19.5	13.4	14.7
SOCIAL SECURITY ADMINISTRATION	18.0	16.5	19.8	15.4	15.9	18.3
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	48.1	34.5	31.1	54.1	39.2	36.5
DEPARTMENT OF THE INTERIOR, TOTAL	430.6	405.1	366.4	436.9	412.1	374.4
BONNEVILLE POWER ADMINISTRATION	14.4	19.1	22.1	14.0	19.9	22.0
BUREAU OF LAND MANAGEMENT	1.9	2.0	2.7	1.9	2.7	2.7
BUREAU OF MINES	97.4	94.9	77.9	109.0	98.0	83.9
BUREAU OF RECLAMATION	14.3	10.4	10.1	13.4	13.8	10.1
GEOLOGICAL SURVEY	169.8	157.8	149.5	168.2	158.7	149.1
NATIONAL PARK SERVICE	10.4	11.1	10.8	10.4	11.1	10.8
OFFICE OF THE SECRETARY	1.5	.6	.6	2.0	.5	.6
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	5.8	1.0	1.5	5.8	1.0	1.5
OFFICE OF WATER RESEARCH & TECHNOLOGY	21.8	13.4	-	21.8	13.4	-
UNITED STATES FISH AND WILDLIFE SERVICE	93.3	94.8	91.3	90.5	93.1	93.7

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TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1981	ESTIMATES		1981	ESTIMATES	
		1982	1983		1982	1983
DEPARTMENT OF JUSTICE, TOTAL	26.5	30.0	22.0	26.1	30.2	29.3
DRUG ENFORCEMENT ADMINISTRATION	1.3	3.4	1.9	1.2	2.0	2.1
FEDERAL BUREAU OF INVESTIGATION	.7	2.1	1.1	1.5	2.0	2.3
FEDERAL PRISON SYSTEM	2.5	2.6	2.6	2.5	2.6	2.6
IMMIGRATION AND NATURALIZATION SERVICE	.1	1.3	.4	1.0	1.3	.4
OFFICE OF THE ATTORNEY GENERAL	.8	.9	.8	.7	.8	.7
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	21.0	19.7	15.2	19.2	21.5	21.2
DEPARTMENT OF LABOR, TOTAL	62.2	30.8	9.9	61.6	36.1	9.7
BUREAU OF LABOR STATISTICS	0.3	0.3	0.3	0.3	0.3	0.3
EMPLOYMENT STANDARDS ADMINISTRATION	3.2	2.0	1.9	3.0	1.8	1.8
EMPLOYMENT AND TRAINING ADMINISTRATION	52.4	21.3	-	52.1	26.9	-
LABOR-MANAGEMENT SERVICES ADMINISTRATION	1.8	.6	.6	1.7	.6	.6
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	3.0	4.9	5.7	3.0	4.9	5.7
OFFICE OF THE SECRETARY	1.1	.9	.9	1.0	.8	.8
PENSION BENEFIT GUARANTEE CORPORATION	.5	.8	.5	.5	.8	.5
DEPARTMENT OF STATE, TOTAL	1.8	2.0	1.8	1.8	2.0	1.8
DEPARTMENTAL FUNDS	1.8	2.0	1.8	1.8	2.0	1.8
DEPARTMENT OF TRANSPORTATION, TOTAL	434.5	342.1	375.9	432.1	346.2	329.7
COAST GUARD	26.3	18.0	15.0	25.9	18.0	15.0
FEDERAL AVIATION ADMINISTRATION	128.9	102.7	160.3	125.9	103.3	129.7
FEDERAL HIGHWAY ADMINISTRATION	51.2	49.9	51.8	59.1	53.2	50.7
FEDERAL RAILROAD ADMINISTRATION	46.1	43.3	20.0	55.0	30.0	19.5
MARITIME ADMINISTRATION	14.2	9.3	16.8	17.4	14.2	15.4
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	66.4	55.3	59.7	60.8	64.2	57.2
OFFICE OF THE SECRETARY	10.1	4.0	7.8	13.9	6.6	5.1
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	13.1	11.2	10.5	12.3	7.8	7.8
URBAN MASS TRANSPORTATION ADMINISTRATION	78.2	48.4	34.0	61.9	48.9	29.3
DEPARTMENT OF THE TREASURY, TOTAL	11.4	12.1	13.2	10.8	12.5	13.4
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	.3	-	-	.3	-	-
BUREAU OF ENGRAVING AND PRINTING	2.7	4.0	2.2	2.7	4.0	2.2
INTERNAL REVENUE SERVICE	4.2	5.1	7.9	4.2	5.1	7.9
OFFICE OF PROTECTIVE RESEARCH	.6	*	-	.1	.4	.2
UNITED STATES CUSTOMS SERVICE	3.5	3.0	3.1	3.5	3.0	3.1
OTHER AGENCIES						
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	2.2	1.9	1.9	1.9	1.9	1.9
APPALACHIAN REGIONAL COMMISSION	.4	.4	-	.4	.4	-
COMMUNITY SERVICES ADMINISTRATION	18.3	-	-	26.2	6.2	-
CONSUMER PRODUCT SAFETY COMMISSION	.5	.2	.6	.9	.3	.4
ENVIRONMENTAL PROTECTION AGENCY	325.7	317.1	229.9	344.3	334.7	273.9
FEDERAL COMMUNICATIONS COMMISSION	1.8	1.0	.7	1.6	.9	.6
FEDERAL EMERGENCY MANAGEMENT AGENCY	11.6	9.3	18.1	11.6	9.3	18.1
FEDERAL HOME LOAN BANK BOARD	1.0	1.2	1.5	1.0	1.2	1.5
FEDERAL TRADE COMMISSION	1.1	1.2	1.3	1.1	1.2	1.3
FOUNDATION FOR EDUCATION ASSISTANCE 2/	104.9	84.9	87.0	111.8	105.6	104.1
GENERAL SERVICES ADMINISTRATION	.6	.8	1.5	.6	.8	1.5
INTERNATIONAL COMMUNICATION AGENCY	1.5	1.5	.2	1.2	1.7	1.1
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	142.2	163.8	139.9	166.1	168.7	195.3
AGENCY FOR INTERNATIONAL DEVELOPMENT	142.2	163.8	139.9	166.1	168.7	195.3
INTERNATIONAL TRADE COMMISSION	3.4	3.6	4.0	3.4	3.6	4.0
LIBRARY OF CONGRESS	4.9	5.3	5.3	5.1	5.6	5.2
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,522.4	5,940.0	6,612.9	5,425.6	5,831.0	6,582.0
NATIONAL SCIENCE FOUNDATION	976.2	970.5	1,049.2	905.0	1,027.8	923.0
NUCLEAR REGULATORY COMMISSION	227.3	222.7	219.7	216.0	213.8	206.5
OFFICE OF PERSONNEL MANAGEMENT	8.4	5.8	5.1	8.1	5.6	4.9
SMITHSONIAN INSTITUTION	45.3	48.9	51.8	43.9	48.1	51.7
TENNESSEE VALLEY AUTHORITY	69.3	82.5	74.7	94.3	87.9	74.7
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	2.4	.7	1.2	2.4	.7	1.2
VETERANS ADMINISTRATION	159.2	137.4	146.8	144.3	137.8	147.0

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1981	ESTIMATES 1982	ESTIMATES 1983	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL AGENCIES	34,917.4	38,954.1	42,973.8	34,179.2	37,621.6	41,173.5
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	774.0	807.4	838.9	743.4	806.5	825.9
AGRICULTURAL COOPERATIVE SERVICE	1.7	1.8	1.4	1.3	1.8	1.4
AGRICULTURAL MARKETING SERVICE	1.1	1.5	-	1.2	1.5	-
AGRICULTURAL RESEARCH SERVICE	394.1	412.0	454.5	390.1	405.3	435.8
COOPERATIVE STATE RESEARCH SERVICE	199.4	221.2	223.3	199.0	226.6	226.8
ECONOMIC RESEARCH SERVICE	39.3	39.4	40.6	38.0	39.1	40.3
FOREST SERVICE	126.1	110.4	98.0	98.6	112.2	99.2
HUMAN NUTRITION INFORMATION SERVICE	-	9.2	8.3	-	5.9	7.6
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	3.9	4.0	3.9	6.9	6.2	5.8
OFFICE OF TRANSPORTATION	.9	1.0	.9	.9	1.0	.9
STATISTICAL REPORTING SERVICE	7.5	7.0	8.0	7.5	7.0	8.0
DEPARTMENT OF COMMERCE, TOTAL	5,246.2	4,864.4	4,178.9	5,386.9	5,344.3	4,350.9
BUREAU OF THE CENSUS	3.9	3.8	4.1	3.8	3.6	4.1
ECONOMIC DEVELOPMENT ADMINISTRATION	28.1	8.4	-	35.5	9.4	3.4
ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION 1/	4,918.2	4,583.5	3,944.2	5,041.4	5,046.5	4,097.0
NATIONAL BUREAU OF STANDARDS	82.5	90.3	80.3	83.9	86.1	82.8
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	201.4	166.3	140.8	208.1	183.5	150.8
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	10.9	11.3	8.9	12.9	14.2	12.2
OFFICE OF THE SECRETARY	-	.1	-	.1	.2	-
PATENT AND TRADEMARK OFFICE	1.1	.6	.7	1.1	.6	.7
DEPARTMENT OF DEFENSE, TOTAL	16,508.6	20,602.3	24,519.6	15,754.5	18,830.8	22,722.3
DEPARTMENT OF THE ARMY	3,244.2	3,702.2	4,594.3	3,114.8	3,537.0	4,210.0
MILITARY FUNCTIONS	3,213.9	3,673.2	4,563.9	3,084.8	3,508.0	4,179.6
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	131.1	146.9	145.6	129.9	146.0	145.2
RDT&E APPROPRIATION	3,082.8	3,526.3	4,418.3	2,954.9	3,362.0	4,034.4
CIVIL FUNCTIONS (CORPS OF ENGINEERS)	30.3	29.0	30.4	30.0	29.0	30.4
DEPARTMENT OF THE NAVY	5,006.0	5,820.2	6,251.4	4,824.7	5,475.2	5,991.9
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	120.2	141.4	142.4	119.3	141.1	142.2
RDT&E APPROPRIATION	4,885.6	5,674.7	6,105.6	4,702.9	5,332.9	5,848.7
SPECIAL FOREIGN CURRENCY PROGRAM	.2	4.1	3.4	2.5	1.2	1.0
DEPARTMENT OF THE AIR FORCE	6,969.2	9,355.8	11,405.0	6,626.6	8,275.2	10,510.0
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	333.7	392.7	397.1	328.7	386.9	391.0
RDT&E APPROPRIATION	6,635.5	8,963.1	11,007.9	6,297.9	7,888.3	10,119.0
DEFENSE AGENCIES	1,248.2	1,673.2	2,210.5	1,152.6	1,500.0	1,958.2
RDT&E APPROPRIATION	1,248.2	1,673.2	2,210.5	1,152.6	1,500.0	1,958.2
DIRECTOR OF TEST & EVALUATION, DEFENSE	41.1	50.9	58.4	35.7	43.4	52.2
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,927.1	3,967.9	4,117.8	3,954.9	3,958.2	4,052.7
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	239.4	252.2	288.7	250.9	262.0	276.8
CENTERS FOR DISEASE CONTROL	74.8	70.5	72.0	83.0	75.1	73.6
FOOD & DRUG ADMINISTRATION	71.4	72.7	74.7	57.1	58.2	59.8
HEALTH CARE FINANCING ADMINISTRATION	38.6	29.5	30.0	35.4	29.5	30.0
HEALTH RESOURCES ADMINISTRATION	5.0	2.5	-	3.7	4.3	3.4
HEALTH SERVICES ADMINISTRATION	20.3	4.0	1.9	16.9	6.9	4.3
HUMAN DEVELOPMENT SERVICES	73.7	61.3	64.5	85.5	70.6	59.8
NATIONAL INSTITUTES OF HEALTH	3,333.2	3,428.7	3,534.6	3,350.2	3,392.1	3,488.6
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	33.1	16.6	16.9	37.2	30.0	23.3
OFFICE OF THE SECRETARY	19.5	13.4	14.7	19.5	13.4	14.7
SOCIAL SECURITY ADMINISTRATION	18.0	16.5	19.8	15.4	15.9	18.3
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	48.1	34.5	31.1	54.1	39.2	36.5
DEPARTMENT OF THE INTERIOR, TOTAL	427.1	403.4	364.7	432.8	410.1	372.8
BONNEVILLE POWER ADMINISTRATION	14.2	18.7	21.7	13.7	19.5	21.7
BUREAU OF LAND MANAGEMENT	1.9	2.0	2.7	1.9	2.7	2.7
BUREAU OF MINES	96.7	94.6	77.9	106.9	97.7	83.6
BUREAU OF RECLAMATION	14.3	10.4	10.1	13.4	13.8	10.1
GEOLOGICAL SURVEY	169.8	157.8	149.5	168.2	158.7	149.1
NATIONAL PARK SERVICE	10.4	11.1	10.8	10.4	11.1	10.8
OFFICE OF THE SECRETARY	1.5	.6	.6	2.0	.5	.6
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	5.8	1.0	1.5	5.8	1.0	1.5
OFFICE OF WATER RESEARCH & TECHNOLOGY	21.1	12.8	-	21.1	12.8	-
UNITED STATES FISH AND WILDLIFE SERVICE	91.5	94.3	89.9	89.5	92.3	92.7

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TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1981	ESTIMATES		1981	ESTIMATES	
		1982	1983		1982	1983
DEPARTMENT OF JUSTICE, TOTAL	26.5	30.0	22.0	26.1	30.2	29.3
DRUG ENFORCEMENT ADMINISTRATION	1.3	3.4	1.9	1.2	2.0	2.1
FEDERAL BUREAU OF INVESTIGATION	.7	2.1	1.1	1.5	2.0	2.3
FEDERAL PRISON SYSTEM	2.5	2.6	2.6	2.5	2.6	2.6
IMMIGRATION AND NATURALIZATION SERVICE	.1	1.3	.4	1.0	1.3	.4
OFFICE OF THE ATTORNEY GENERAL	.8	.9	.8	.7	.8	.7
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	21.0	19.7	15.2	19.2	21.5	21.2
DEPARTMENT OF LABOR, TOTAL	62.2	30.8	9.9	61.6	36.1	9.7
BUREAU OF LABOR STATISTICS	0.3	0.3	0.3	0.3	0.3	0.3
EMPLOYMENT STANDARDS ADMINISTRATION	3.2	2.0	1.9	3.0	1.8	1.8
EMPLOYMENT AND TRAINING ADMINISTRATION	52.4	21.3	-	52.1	26.9	-
LABOR-MANAGEMENT SERVICES ADMINISTRATION	1.8	.6	.6	1.7	.6	.6
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	3.0	4.9	5.7	3.0	4.9	5.7
OFFICE OF THE SECRETARY	1.1	.9	.9	1.0	.8	.8
PENSION BENEFIT GUARANTEE CORPORATION	.5	.8	.5	.5	.8	.5
DEPARTMENT OF STATE, TOTAL	1.8	2.0	1.8	1.8	2.0	1.8
DEPARTMENTAL FUNDS	1.8	2.0	1.8	1.8	2.0	1.8
DEPARTMENT OF TRANSPORTATION, TOTAL	415.5	327.8	366.5	415.9	326.4	321.6
COAST GUARD	26.3	18.0	15.0	25.9	18.0	15.0
FEDERAL AVIATION ADMINISTRATION	120.0	96.7	151.5	119.8	99.0	123.5
FEDERAL HIGHWAY ADMINISTRATION	51.2	49.9	51.8	56.3	48.9	50.7
FEDERAL RAILROAD ADMINISTRATION	36.6	35.6	20.0	48.2	19.4	18.2
MARITIME ADMINISTRATION	14.2	9.3	16.8	17.4	14.2	15.4
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	65.9	54.7	59.1	60.3	63.6	56.6
OFFICE OF THE SECRETARY	10.1	4.0	7.8	13.9	6.6	5.1
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	13.1	11.2	10.5	12.3	7.8	7.8
URBAN MASS TRANSPORTATION ADMINISTRATION	78.2	48.4	34.0	61.9	48.9	29.3
DEPARTMENT OF THE TREASURY, TOTAL	11.3	12.1	13.2	10.8	12.4	13.3
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	.3	-	-	.3	-	-
BUREAU OF ENGRAVING AND PRINTING	2.7	4.0	2.2	2.7	4.0	2.2
INTERNAL REVENUE SERVICE	4.2	5.1	7.9	4.2	5.1	7.9
OFFICE OF PROTECTIVE RESEARCH	.6	*	-	.1	.4	.2
UNITED STATES CUSTOMS SERVICE	3.5	2.9	3.0	3.5	2.9	3.0
OTHER AGENCIES						
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	2.2	1.9	1.9	1.9	1.9	1.9
APPALACHIAN REGIONAL COMMISSION	.4	.4	-	.4	.4	-
COMMUNITY SERVICES ADMINISTRATION	18.3	-	-	26.2	6.2	-
CONSUMER PRODUCT SAFETY COMMISSION	.5	.2	.6	.9	.3	.4
ENVIRONMENTAL PROTECTION AGENCY	325.7	317.1	229.9	344.3	334.7	273.9
FEDERAL COMMUNICATIONS COMMISSION	1.8	1.0	.7	1.6	.9	.6
FEDERAL EMERGENCY MANAGEMENT AGENCY	11.6	9.3	18.1	11.6	9.3	18.1
FEDERAL HOME LOAN BANK BOARD	1.0	1.2	1.5	1.0	1.2	1.5
FEDERAL TRADE COMMISSION	1.1	1.2	1.3	1.1	1.2	1.3
FOUNDATION FOR EDUCATION ASSISTANCE 2/	104.9	84.9	87.0	111.8	105.6	104.1
GENERAL SERVICES ADMINISTRATION	.6	.8	1.5	.6	.8	1.5
INTERNATIONAL COMMUNICATION AGENCY	1.5	1.5	.2	1.2	1.7	1.1
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	134.2	155.9	132.0	159.9	159.5	183.3
AGENCY FOR INTERNATIONAL DEVELOPMENT	134.2	155.9	132.0	159.9	159.5	183.3
INTERNATIONAL TRADE COMMISSION	3.4	3.6	4.0	3.4	3.6	4.0
LIBRARY OF CONGRESS	4.9	5.3	5.3	5.1	5.6	5.2
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,406.6	5,841.3	6,512.9	5,278.7	5,696.1	6,460.2
NATIONAL SCIENCE FOUNDATION	961.6	959.6	1,025.1	892.3	1,018.3	907.8
NUCLEAR REGULATORY COMMISSION	219.7	215.8	213.5	208.7	207.1	200.7
OFFICE OF PERSONNEL MANAGEMENT	8.4	5.8	5.1	8.1	5.6	4.9
SMITHSONIAN INSTITUTION	44.9	47.6	51.0	43.5	47.1	51.0
TENNESSEE VALLEY AUTHORITY	68.9	81.7	74.2	93.9	87.1	74.2
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	2.4	.7	1.2	2.4	.7	1.2
VETERANS ADMINISTRATION	144.4	135.0	142.6	137.8	130.5	140.1

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	34,917,371	5,041,295	7,171,485	22,704,591
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	773,958	314,128	426,856	32,974
AGRICULTURAL COOPERATIVE SERVICE	1,739	-	1,739	-
AGRICULTURAL MARKETING SERVICE	1,127	-	907	220
AGRICULTURAL RESEARCH SERVICE	394,085	186,436	181,486	26,163
COOPERATIVE STATE RESEARCH SERVICE	199,383	83,852	115,531	-
ECONOMIC RESEARCH SERVICE	39,343	3,584	35,759	-
FOREST SERVICE	126,055	38,091	81,768	6,196
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	3,871	1,703	1,858	310
OFFICE OF TRANSPORTATION	855	462	308	85
STATISTICAL REPORTING SERVICE	7,500	-	7,500	-
DEPARTMENT OF COMMERCE, TOTAL	5,246,150	602,544	1,060,436	3,583,170
BUREAU OF THE CENSUS	3,915	438	2,578	899
ECONOMIC DEVELOPMENT ADMINISTRATION	28,100	200	1,600	26,300
ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION 1/	4,918,225	586,340	827,265	3,504,620
NATIONAL BUREAU OF STANDARDS	82,518	15,566	50,640	16,312
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	201,351	-	168,496	32,855
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	10,934	-	9,857	1,077
PATENT AND TRADEMARK OFFICE	1,107	-	-	1,107
DEPARTMENT OF DEFENSE, TOTAL	16,508,649	604,285	1,996,615	13,907,749
DEPARTMENT OF THE ARMY	3,244,159	148,089	388,366	2,707,704
DEPARTMENT OF THE NAVY	5,005,952	238,000	460,000	4,307,952
DEPARTMENT OF THE AIR FORCE	6,969,247	125,800	491,500	6,351,947
DEFENSE AGENCIES	1,248,240	92,396	656,749	499,095
DIRECTOR OF TEST & EVALUATION, DEFENSE	41,051	-	-	41,051
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,927,141	1,900,384	1,591,857	434,900
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	239,437	116,309	121,375	1,753
CENTERS FOR DISEASE CONTROL	74,822	-	74,822	-
FOOD & DRUG ADMINISTRATION	71,400	-	71,400	-
HEALTH CARE FINANCING ADMINISTRATION	38,623	-	38,623	-
HEALTH RESOURCES ADMINISTRATION	5,038	-	5,038	-
HEALTH SERVICES ADMINISTRATION	20,320	3,800	6,436	10,084
HUMAN DEVELOPMENT SERVICES	73,707	446	39,451	33,810
NATIONAL INSTITUTES OF HEALTH	3,333,249	1,766,788	1,181,521	384,940
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	33,067	12,441	16,313	4,313
OFFICE OF THE SECRETARY	19,500	600	18,900	-
SOCIAL SECURITY ADMINISTRATION	17,978	-	17,978	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	48,108	-	16,690	31,418
DEPARTMENT OF THE INTERIOR, TOTAL	427,105	80,663	289,174	57,268
BONNEVILLE POWER ADMINISTRATION	14,166	420	6,071	7,675
BUREAU OF LAND MANAGEMENT	1,855	-	1,458	397
BUREAU OF MINES	96,744	13,600	54,400	28,744
BUREAU OF RECLAMATION	14,314	118	13,269	927
GEOLOGICAL SURVEY	169,777	53,493	115,784	500
NATIONAL PARK SERVICE	10,351	-	10,351	-
OFFICE OF THE SECRETARY	1,514	1,514	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	5,794	-	5,794	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	21,090	7,630	8,160	5,300
UNITED STATES FISH AND WILDLIFE SERVICE	91,500	3,886	73,887	13,725
DEPARTMENT OF JUSTICE, TOTAL	26,527	4,631	14,872	7,024
DRUG ENFORCEMENT ADMINISTRATION	1,300	-	400	900
FEDERAL BUREAU OF INVESTIGATION	700	-	-	700
FEDERAL PRISON SYSTEM	2,507	-	1,657	850
IMMIGRATION AND NATURALIZATION SERVICE	146	-	70	76
OFFICE OF THE ATTORNEY GENERAL	835	-	700	135
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	21,039	4,631	12,045	4,363
DEPARTMENT OF LABOR, TOTAL	62,188	3,740	54,457	3,991
BUREAU OF LABOR STATISTICS	251	-	251	-
EMPLOYMENT STANDARDS ADMINISTRATION	3,200	-	3,200	-
EMPLOYMENT AND TRAINING ADMINISTRATION	52,385	3,740	45,054	3,591
LABOR-MANAGEMENT SERVICES ADMINISTRATION	1,752	-	1,752	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	3,000	-	3,000	-
OFFICE OF THE SECRETARY	1,100	-	1,100	-
PENSION BENEFIT GUARANTEE CORPORATION	500	-	100	400
DEPARTMENT OF STATE, TOTAL	1,766	-	1,606	160
DEPARTMENTAL FUNDS	1,766	-	1,606	160

CONTINUED ON NEXT PAGE

TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	415,539	1,210	87,379	326,950
COAST GUARD	26,269	260	14,703	11,306
FEDERAL AVIATION ADMINISTRATION	120,000	-	8,200	111,800
FEDERAL HIGHWAY ADMINISTRATION	51,200	-	5,100	46,100
FEDERAL RAILROAD ADMINISTRATION	36,600	-	6,200	30,400
MARITIME ADMINISTRATION	14,186	650	8,876	4,660
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	65,900	-	29,400	36,500
OFFICE OF THE SECRETARY	10,084	-	700	9,384
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	13,100	300	4,900	7,900
URBAN MASS TRANSPORTATION ADMINISTRATION	78,200	-	9,300	68,900
DEPARTMENT OF THE TREASURY, TOTAL	11,306	2,344	2,875	6,087
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	300	-	100	200
BUREAU OF ENGRAVING AND PRINTING	2,712	-	907	1,805
INTERNAL REVENUE SERVICE	4,170	2,344	1,814	12
OFFICE OF PROTECTIVE RESEARCH	640	-	-	640
UNITED STATES CUSTOMS SERVICE	3,484	-	54	3,430
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	2,211	-	2,211	-
APPALACHIAN REGIONAL COMMISSION	375	-	280	95
COMMUNITY SERVICES ADMINISTRATION	18,315	-	1,927	16,388
CONSUMER PRODUCT SAFETY COMMISSION	528	60	150	318
ENVIRONMENTAL PROTECTION AGENCY	325,700	10,500	207,800	107,400
FEDERAL COMMUNICATIONS COMMISSION	1,815	-	1,815	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	11,599	2,639	6,449	2,511
FEDERAL HOME LOAN BANK BOARD	1,036	-	1,036	-
FEDERAL TRADE COMMISSION	1,100	935	165	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	104,862	20,576	33,212	51,074
GENERAL SERVICES ADMINISTRATION	610	-	390	220
INTERNATIONAL COMMUNICATION AGENCY	1,454	104	1,012	338
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	134,230	-	86,400	47,830
AGENCY FOR INTERNATIONAL DEVELOPMENT	134,230	-	86,400	47,830
INTERNATIONAL TRADE COMMISSION	3,397	-	3,397	-
LIBRARY OF CONGRESS	4,900	200	700	4,000
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,406,602	531,122	876,036	3,999,444
NATIONAL SCIENCE FOUNDATION	961,564	896,569	58,895	6,100
NUCLEAR REGULATORY COMMISSION	219,667	-	219,667	-
OFFICE OF PERSONNEL MANAGEMENT	8,364	-	3,387	4,977
SMITHSONIAN INSTITUTION	44,861	44,861	-	-
TENNESSEE VALLEY AUTHORITY	68,900	4,800	9,400	54,700
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	2,444	-	1,639	805
VETERANS ADMINISTRATION	144,400	15,000	112,700	16,700

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	38,954,123	5,310,848	7,284,134	26,359,141
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	807,363	332,071	443,268	32,024
AGRICULTURAL COOPERATIVE SERVICE	1,808	-	1,808	-
AGRICULTURAL MARKETING SERVICE	1,463	-	1,177	286
AGRICULTURAL RESEARCH SERVICE	411,962	196,147	189,608	26,207
COOPERATIVE STATE RESEARCH SERVICE	221,216	91,927	129,289	-
ECONOMIC RESEARCH SERVICE	39,360	3,598	35,762	-
FOREST SERVICE	110,392	38,120	67,857	4,415
HUMAN NUTRITION INFORMATION SERVICE	9,200	-	8,500	700
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	4,004	1,762	1,922	320
OFFICE OF TRANSPORTATION	958	517	345	96
STATISTICAL REPORTING SERVICE	7,000	-	7,000	-
DEPARTMENT OF COMMERCE, TOTAL	4,864,377	664,262	1,097,939	3,102,176
BUREAU OF THE CENSUS	3,823	331	2,506	986
ECONOMIC DEVELOPMENT ADMINISTRATION	8,400	300	1,600	6,500
ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION 1/	4,583,496	646,750	895,522	3,041,224
NATIONAL BUREAU OF STANDARDS	90,339	16,881	54,990	18,468
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	166,332	-	133,163	33,169
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	11,286	-	10,091	1,195
OFFICE OF THE SECRETARY	67	-	67	-
PATENT AND TRADEMARK OFFICE	634	-	-	634
DEPARTMENT OF DEFENSE, TOTAL	20,602,252	674,243	2,208,877	17,719,132
DEPARTMENT OF THE ARMY	3,702,225	167,145	416,378	3,118,702
DEPARTMENT OF THE NAVY	5,820,175	280,000	490,600	5,049,575
DEPARTMENT OF THE AIR FORCE	9,355,752	140,400	452,000	8,763,352
DEFENSE AGENCIES	1,673,200	86,698	849,899	736,603
DIRECTOR OF TEST & EVALUATION, DEFENSE	50,900	-	-	50,900
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,967,948	1,970,658	1,583,537	413,753
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	252,208	124,354	126,354	1,500
CENTERS FOR DISEASE CONTROL	70,529	-	70,529	-
FOOD & DRUG ADMINISTRATION	72,700	-	72,700	-
HEALTH CARE FINANCING ADMINISTRATION	29,500	-	29,500	-
HEALTH RESOURCES ADMINISTRATION	2,488	-	2,488	-
HEALTH SERVICES ADMINISTRATION	3,953	700	1,220	2,033
HUMAN DEVELOPMENT SERVICES	61,332	-	35,095	26,237
NATIONAL INSTITUTES OF HEALTH	3,428,700	1,839,400	1,207,700	381,600
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	16,571	5,804	8,384	2,383
OFFICE OF THE SECRETARY	13,440	400	13,040	-
SOCIAL SECURITY ADMINISTRATION	16,527	-	16,527	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	34,462	-	13,001	21,461
DEPARTMENT OF THE INTERIOR, TOTAL	403,382	74,163	275,665	53,554
BONNEVILLE POWER ADMINISTRATION	18,732	500	10,459	7,773
BUREAU OF LAND MANAGEMENT	2,010	-	1,580	430
BUREAU OF MINES	94,610	12,900	56,944	24,766
BUREAU OF RECLAMATION	10,406	206	9,785	415
GEOLOGICAL SURVEY	157,792	52,625	104,667	500
NATIONAL PARK SERVICE	11,093	-	11,093	-
OFFICE OF THE SECRETARY	594	594	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	1,000	-	1,000	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	12,845	3,330	3,990	5,525
UNITED STATES FISH AND WILDLIFE SERVICE	94,300	4,008	76,147	14,145
DEPARTMENT OF JUSTICE, TOTAL	30,005	4,442	14,722	10,841
DRUG ENFORCEMENT ADMINISTRATION	3,400	-	1,000	2,400
FEDERAL BUREAU OF INVESTIGATION	2,149	-	-	2,149
FEDERAL PRISON SYSTEM	2,607	-	1,657	950
IMMIGRATION AND NATURALIZATION SERVICE	1,276	-	376	900
OFFICE OF THE ATTORNEY GENERAL	905	-	804	101
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	19,668	4,442	10,885	4,341
DEPARTMENT OF LABOR, TOTAL	30,812	3,642	25,609	1,561
BUREAU OF LABOR STATISTICS	291	-	291	-
EMPLOYMENT STANDARDS ADMINISTRATION	2,000	-	2,000	-
EMPLOYMENT AND TRAINING ADMINISTRATION	21,343	3,642	16,717	984
LABOR-MANAGEMENT SERVICES ADMINISTRATION	606	-	606	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	4,900	-	4,900	-
OFFICE OF THE SECRETARY	900	-	900	-
PENSION BENEFIT GUARANTEE CORPORATION	772	-	195	577
DEPARTMENT OF STATE, TOTAL	1,999	-	1,999	-
DEPARTMENTAL FUNDS	1,999	-	1,999	-

CONTINUED ON NEXT PAGE

TABLE C-5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	327,795	900	68,234	258,661
COAST GUARD	18,000	-	10,125	7,875
FEDERAL AVIATION ADMINISTRATION	96,700	-	3,100	93,600
FEDERAL HIGHWAY ADMINISTRATION	49,900	-	5,000	44,900
FEDERAL RAILROAD ADMINISTRATION	35,600	-	6,100	29,500
MARITIME ADMINISTRATION	9,288	700	5,802	2,786
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	54,700	-	22,200	32,500
OFFICE OF THE SECRETARY	3,990	-	600	3,390
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	11,200	200	4,300	6,700
URBAN MASS TRANSPORTATION ADMINISTRATION	48,417	-	11,007	37,410
DEPARTMENT OF THE TREASURY, TOTAL	12,069	2,023	4,459	5,587
BUREAU OF ENGRAVING AND PRINTING	4,000	-	1,393	2,607
INTERNAL REVENUE SERVICE	5,089	2,023	3,066	-
OFFICE OF PROTECTIVE RESEARCH	45	-	-	45
UNITED STATES CUSTOMS SERVICE	2,935	-	-	2,935
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,884	-	1,884	-
APPALACHIAN REGIONAL COMMISSION	400	-	300	100
CONSUMER PRODUCT SAFETY COMMISSION	163	-	-	163
ENVIRONMENTAL PROTECTION AGENCY	317,100	14,700	201,900	100,500
FEDERAL COMMUNICATIONS COMMISSION	953	-	953	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	9,332	1,438	7,894	-
FEDERAL HOME LOAN BANK BOARD	1,210	-	1,210	-
FEDERAL TRADE COMMISSION	1,159	985	174	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	84,901	15,316	26,172	43,413
GENERAL SERVICES ADMINISTRATION	833	-	553	280
INTERNATIONAL COMMUNICATION AGENCY	1,520	75	1,141	304
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	155,879	-	101,433	54,446
AGENCY FOR INTERNATIONAL DEVELOPMENT	155,879	-	101,433	54,446
INTERNATIONAL TRADE COMMISSION	3,639	-	3,639	-
LIBRARY OF CONGRESS	5,300	100	600	4,600
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,841,300	575,282	809,531	4,456,487
NATIONAL SCIENCE FOUNDATION	959,594	910,794	48,800	-
NUCLEAR REGULATORY COMMISSION	215,763	-	215,763	-
OFFICE OF PERSONNEL MANAGEMENT	5,805	-	2,807	2,998
SMITHSONIAN INSTITUTION	47,554	47,554	-	-
TENNESSEE VALLEY AUTHORITY	81,700	5,200	13,900	62,600
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	670	-	570	100
VETERANS ADMINISTRATION	135,000	13,000	107,600	14,400

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	42,973,763	5,765,190	7,499,674	29,708,899
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	838,924	359,123	449,057	30,744
AGRICULTURAL COOPERATIVE SERVICE	1,436	-	1,436	-
AGRICULTURAL RESEARCH SERVICE	454,456	221,559	206,690	26,207
COOPERATIVE STATE RESEARCH SERVICE	223,303	96,435	126,868	-
ECONOMIC RESEARCH SERVICE	40,584	3,624	36,960	-
FOREST SERVICE	97,990	35,275	59,285	3,430
HUMAN NUTRITION INFORMATION SERVICE	8,300	-	7,600	700
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	3,917	1,724	1,880	313
OFFICE OF TRANSPORTATION	938	506	338	94
STATISTICAL REPORTING SERVICE	8,000	-	8,000	-
DEPARTMENT OF COMMERCE, TOTAL	4,178,891	756,456	928,764	2,493,671
BUREAU OF THE CENSUS	4,067	414	2,579	1,074
ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION 1/	3,944,225	738,694	760,449	2,445,082
NATIONAL BUREAU OF STANDARDS	80,266	17,348	54,713	8,205
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	140,758	-	103,140	37,618
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	8,881	-	7,883	998
PATENT AND TRADEMARK OFFICE	694	-	-	694
DEPARTMENT OF DEFENSE, TOTAL	24,519,629	782,135	2,543,926	21,193,568
DEPARTMENT OF THE ARMY	4,594,334	203,594	505,037	3,885,703
DEPARTMENT OF THE NAVY	6,251,390	305,000	546,300	5,400,090
DEPARTMENT OF THE AIR FORCE	11,405,005	164,200	542,000	10,698,805
DEFENSE AGENCIES	2,210,500	109,341	950,589	1,150,570
DIRECTOR OF TEST & EVALUATION, DEFENSE	58,400	-	-	58,400
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	4,117,765	2,042,332	1,660,933	414,500
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	288,690	135,424	151,556	1,710
CENTERS FOR DISEASE CONTROL	72,019	-	72,019	-
FOOD & DRUG ADMINISTRATION	74,700	-	74,700	-
HEALTH CARE FINANCING ADMINISTRATION	30,000	-	30,000	-
HEALTH SERVICES ADMINISTRATION	1,865	700	1,165	-
HUMAN DEVELOPMENT SERVICES	64,516	3,146	39,211	22,159
NATIONAL INSTITUTES OF HEALTH	3,534,600	1,896,700	1,249,600	388,300
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	16,882	6,062	8,489	2,331
OFFICE OF THE SECRETARY	14,718	300	14,418	-
SOCIAL SECURITY ADMINISTRATION	19,775	-	19,775	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	31,066	-	12,426	18,640
DEPARTMENT OF THE INTERIOR, TOTAL	364,668	67,649	251,014	46,005
BONNEVILLE POWER ADMINISTRATION	21,731	600	10,865	10,266
BUREAU OF LAND MANAGEMENT	2,654	-	2,224	430
BUREAU OF MINES	77,946	12,500	44,400	21,046
BUREAU OF RECLAMATION	10,100	160	9,162	778
GEOLOGICAL SURVEY	149,481	50,018	99,463	-
NATIONAL PARK SERVICE	10,806	-	10,806	-
OFFICE OF THE SECRETARY	550	550	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	1,500	-	1,500	-
UNITED STATES FISH AND WILDLIFE SERVICE	89,900	3,821	72,594	13,485
DEPARTMENT OF JUSTICE, TOTAL	22,019	3,801	11,528	6,690
DRUG ENFORCEMENT ADMINISTRATION	1,900	-	600	1,300
FEDERAL BUREAU OF INVESTIGATION	1,099	-	-	1,099
FEDERAL PRISON SYSTEM	2,607	-	1,657	950
IMMIGRATION AND NATURALIZATION SERVICE	400	-	200	200
OFFICE OF THE ATTORNEY GENERAL	810	-	709	101
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	15,203	3,801	8,362	3,040
DEPARTMENT OF LABOR, TOTAL	9,906	-	9,441	465
BUREAU OF LABOR STATISTICS	315	-	315	-
EMPLOYMENT STANDARDS ADMINISTRATION	1,900	-	1,900	-
LABOR-MANAGEMENT SERVICES ADMINISTRATION	626	-	626	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	5,700	-	5,700	-
OFFICE OF THE SECRETARY	900	-	900	-
PENSION BENEFIT GUARANTEE CORPORATION	465	-	-	465
DEPARTMENT OF STATE, TOTAL	1,755	-	1,755	-
DEPARTMENTAL FUNDS	1,755	-	1,755	-

CONTINUED ON NEXT PAGE

TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	366,500	700	72,635	293,165
COAST GUARD	15,000	-	8,175	6,825
FEDERAL AVIATION ADMINISTRATION	151,500	-	8,000	143,500
FEDERAL HIGHWAY ADMINISTRATION	51,800	-	5,200	46,600
FEDERAL RAILROAD ADMINISTRATION	20,000	-	3,400	16,600
MARITIME ADMINISTRATION	16,800	700	12,060	4,040
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	59,100	-	22,600	36,500
OFFICE OF THE SECRETARY	7,800	-	600	7,200
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	10,500	-	4,100	6,400
URBAN MASS TRANSPORTATION ADMINISTRATION	34,000	-	8,500	25,500
DEPARTMENT OF THE TREASURY, TOTAL	13,150	3,114	6,606	3,430
BUREAU OF ENGRAVING AND PRINTING	2,211	-	1,781	430
INTERNAL REVENUE SERVICE	7,939	3,114	4,825	-
UNITED STATES CUSTOMS SERVICE	3,000	-	-	3,000
OTHER AGENCIES				
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,925	-	1,925	-
CONSUMER PRODUCT SAFETY COMMISSION	582	-	181	401
ENVIRONMENTAL PROTECTION AGENCY	229,900	9,800	150,000	70,100
FEDERAL COMMUNICATIONS COMMISSION	654	-	654	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	18,074	-	18,074	-
FEDERAL HOME LOAN BANK BOARD	1,497	-	1,497	-
FEDERAL TRADE COMMISSION	1,300	1,105	195	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	87,009	15,466	29,128	42,415
GENERAL SERVICES ADMINISTRATION	1,480	-	1,480	-
INTERNATIONAL COMMUNICATION AGENCY	154	-	150	4
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	131,959	-	91,544	40,415
AGENCY FOR INTERNATIONAL DEVELOPMENT	131,959	-	91,544	40,415
INTERNATIONAL TRADE COMMISSION	3,994	-	3,994	-
LIBRARY OF CONGRESS	5,300	100	600	4,600
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	6,512,900	677,223	854,509	4,981,168
NATIONAL SCIENCE FOUNDATION	1,025,113	975,555	49,558	-
NUCLEAR REGULATORY COMMISSION	213,525	-	213,525	-
OFFICE OF PERSONNEL MANAGEMENT	5,141	-	2,223	2,918
SMITHSONIAN INSTITUTION	51,031	51,031	-	-
TENNESSEE VALLEY AUTHORITY	74,200	5,700	17,700	50,800
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	1,152	-	952	200
VETERANS ADMINISTRATION	142,600	13,900	113,700	15,000

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	34,917.4	8,728.8	16,260.6	1,413.9	4,477.9	1,828.5	1,120.2	525.2	222.2	340.0
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	774.0	511.4	8.5	-	242.7	-	2.3	-	3.7	5.0
AGRICULTURAL COOPERATIVE SERVICE	1.7	1.2	-	-	.5	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1.1	1.1	-	-	*	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	394.1	344.2	8.8	-	34.9	-	1.7	-	2.7	1.8
COOPERATIVE STATE RESEARCH SERVICE	199.4	7.1	-	-	191.6	-	-	-	.7	-
ECONOMIC RESEARCH SERVICE	39.3	37.5	-	-	1.8	-	-	-	-	-
FOREST SERVICE	126.1	111.9	.1	-	13.0	-	.6	-	.4	.2
OFF OF INTERNAT'L COOPERATION & DEV	3.9	.8	-	-	-	-	-	-	-	3.0
OFFICE OF TRANSPORTATION	.9	.9	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7.5	6.7	-	-	.8	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	5,246.2	687.6	1,344.7	1,154.8	346.4	1,400.6	76.0	184.1	24.1	27.8
BUREAU OF THE CENSUS	3.9	3.8	-	-	.2	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	28.1	2.6	2.1	-	3.8	-	8.5	-	11.1	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 2/	4,918.2	450.8	1,331.2	1,154.7	300.5	1,399.9	65.6	184.0	4.5	27.1
NATIONAL BUREAU OF STANDARDS	82.5	77.6	2.9	-	1.4	-	.1	-	-	.4
NAT'L OCEANIC & ATMOSPHERIC ADMIN	201.4	140.8	8.5	.1	40.6	.7	1.8	.1	8.5	.3
NAT'L TELECOMM & INFORMATION ADMIN	10.9	10.9	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	1.1	1.1	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	16,508.6	4,280.7	10,825.9	105.5	572.9	185.8	138.1	318.9	.2	80.6
DEPARTMENT OF THE ARMY	3,244.2	1,202.0	1,913.5	3.6	64.5	24.3	22.4	8.6	.2	5.0
DEPARTMENT OF THE NAVY	5,006.0	1,473.5	3,072.1	96.0	228.6	20.6	44.9	6.3	-	63.9
DEPARTMENT OF THE AIR FORCE	6,969.2	1,238.8	5,084.4	-	237.8	82.4	44.9	270.9	-	10.1
DEFENSE AGENCIES	1,248.2	328.6	755.9	5.9	41.9	58.5	26.0	29.9	-	1.6
DIRECTOR OF TEST & EVALUATION, DEFENSE	41.1	37.8	-	-	.1	-	-	3.2	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,927.1	872.3	161.3	27.9	2,184.9	15.0	560.7	1.7	74.5	28.8
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	239.4	80.2	4.4	-	116.3	-	31.5	-	5.4	1.6
CENTERS FOR DISEASE CONTROL	74.8	52.8	9.1	-	6.4	-	5.2	-	.3	1.0
FOOD & DRUG ADMINISTRATION	71.4	57.9	3.8	-	5.7	-	4.0	-	-	-
HEALTH CARE FINANCING ADMIN	38.6	3.2	14.3	-	10.1	-	4.5	-	6.6	-
HEALTH RESOURCES ADMINISTRATION	5.0	.1	-	-	4.5	-	.4	-	-	-
HEALTH SERVICES ADMINISTRATION	20.3	8.8	-	-	3.9	-	6.6	-	.8	.2
HUMAN DEVELOPMENT SERVICES	73.7	5.2	7.8	-	33.9	-	19.3	-	6.4	1.0
NATIONAL INSTITUTES OF HEALTH	3,333.2	638.5	115.5	27.9	1,984.4	15.0	479.2	1.7	46.5	24.4
OFFICE OF ASST'T SECY FOR HEALTH	33.1	12.4	4.2	-	14.4	-	1.7	-	-	.3
OFFICE OF THE SECRETARY	19.5	1.9	1.9	-	1.5	-	7.6	-	6.6	-
SOCIAL SECURITY ADMINISTRATION	18.0	11.2	.2	-	3.8	-	.6	-	1.8	.2
DEPT OF HOUSING & URBAN DEVELOPMENT	48.1	21.5	13.8	-	4.8	-	7.5	-	.5	-
DEPARTMENT OF THE INTERIOR, TOTAL	427.1	273.8	62.0	.1	39.4	1.6	3.6	.3	45.6	.7
BONNEVILLE POWER ADMINISTRATION	14.2	4.5	8.1	-	.5	*	-	.1	.8	.1
BUREAU OF LAND MANAGEMENT	1.9	1.0	-	-	.9	-	-	-	-	-
BUREAU OF MINES	96.7	47.0	40.6	-	5.2	.3	3.1	.2	.4	-
BUREAU OF RECLAMATION	14.3	8.4	1.8	-	3.2	-	-	-	1.0	-
GEOLOGICAL SURVEY	169.8	155.5	4.4	-	9.0	.9	-	-	-	-
NATIONAL PARK SERVICE	10.4	7.2	.8	-	2.2	-	.1	-	*	-
OFFICE OF THE SECRETARY	1.5	.6	.3	-	-	-	-	-	-	.6
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	5.8	1.6	.4	-	3.8	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	21.1	3.0	5.0	-	13.1	-	-	-	-	-
US FISH & WILDLIFE SERVICE	91.5	45.2	.5	-	1.5	.4	.4	.1	43.4	-
DEPARTMENT OF JUSTICE, TOTAL	26.5	3.7	5.2	-	8.8	-	6.6	-	2.2	.1
DRUG ENFORCEMENT ADMINISTRATION	1.3	.4	.9	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	.7	.3	.4	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	2.5	.9	-	-	.5	-	-	-	1.1	-
IMMIGRATION & NATURALIZATION SVC	.1	.1	.1	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	.8	.1	.6	-	.1	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	21.0	1.8	3.3	-	8.2	-	6.6	-	1.1	.1
DEPARTMENT OF LABOR, TOTAL	62.2	35.3	8.6	-	9.8	-	8.4	-	.2	-
BUREAU OF LABOR STATISTICS	.3	.3	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	3.2	2.7	.3	-	*	-	.2	-	-	-
EMPLOYMENT & TRAINING ADMIN	52.4	30.1	4.9	-	9.4	-	7.8	-	.2	-
LABOR-MANAGEMENT SERVICES ADMIN	1.8	1.1	*	-	.3	-	.4	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	3.0	*	2.9	-	.1	-	.1	-	-	-
OFFICE OF THE SECRETARY	1.1	1.1	-	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	.5	.1	.4	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1.8	1.1	.7	-	.1	-	-	-	-	-
DEPARTMENTAL FUNDS	1.8	1.1	0.7	-	0.1	-	-	-	-	-

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TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	415.5	122.4	193.2	-	28.5	4.0	22.4	-	45.1	-
COAST GUARD	26.3	14.0	11.8	-	.3	.2	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	120.0	28.6	76.9	-	.4	3.8	10.3	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	51.2	11.8	5.9	-	8.5	-	1.4	-	23.6	-
FEDERAL RAILROAD ADMINISTRATION	36.6	13.0	20.6	-	.6	-	.9	-	1.5	-
MARITIME ADMINISTRATION	14.2	.3	12.3	-	.7	-	.7	-	.1	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	65.9	10.4	39.2	-	4.8	-	4.1	-	7.5	-
OFFICE OF THE SECRETARY	10.1	6.4	3.6	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	13.1	6.6	3.1	-	3.4	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	78.2	31.2	19.9	-	9.6	-	5.1	-	12.4	-
DEPARTMENT OF THE TREASURY, TOTAL	11.3	5.4	5.7	-	*	-	-	0.2	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	.3	.1	-	-	-	-	-	.2	-	-
BUREAU OF ENGRAVING AND PRINTING	2.7	2.5	.3	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	4.2	2.7	1.4	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	.6	*	.6	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	3.5	.1	3.3	-	*	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2.2	2.2	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.4	.1	.1	-	-	-	-	-	.2	-
COMMUNITY SERVICES ADMINISTRATION	18.3	1.5	-	-	-	-	16.8	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	0.5	0.4	0.2	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	325.7	152.0	79.7	-	52.2	-	21.8	-	18.9	1.2
FEDERAL COMMUNICATIONS COMMISSION	1.8	1.1	.7	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	11.6	4.4	2.7	0.1	1.6	0.3	2.2	0.1	.2	-
FEDERAL HOME LOAN BANK BOARD	1.0	.9	.1	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.1	1.1	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	104.9	17.5	11.1	-	41.8	-	30.9	-	3.3	.3
GENERAL SERVICES ADMINISTRATION	.6	.5	.1	-	-	-	*	-	-	-
INTERNATIONAL COMMUNICATION AGENCY	1.5	.2	*	-	.6	-	.6	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	134.2	7.2	9.1	-	46.4	-	2.3	-	-	69.2
AGENCY FOR INTERNAT'L DEVELOPMENT ..	134.2	7.2	9.1	-	46.4	-	2.3	-	-	69.2
INTERNATIONAL TRADE COMMISSION	3.4	3.4	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	4.9	4.6	.3	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	5,406.6	1,346.8	3,489.1	-	183.5	116.5	150.3	.7	.1	119.6
NATIONAL SCIENCE FOUNDATION	961.6	106.5	29.6	1.7	702.1	71.2	46.6	.1	1.6	2.2
NUCLEAR REGULATORY COMMISSION	219.7	25.1	6.5	123.9	8.1	33.2	2.7	18.8	.5	.8
OFFICE OF PERSONNEL MANAGEMENT	8.4	5.3	.4	-	1.2	-	*	-	1.4	-
SMITHSONIAN INSTITUTION	44.9	41.2	-	-	-	-	-	-	-	3.7
TENNESSEE VALLEY AUTHORITY	68.9	49.2	-	-	-	-	19.7	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2.4	.2	1.2	-	.1	.3	.5	.2	-	-
VETERANS ADMINISTRATION	144.4	142.3	-	-	2.1	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	38,954.1	9,645.1	19,212.3	1,476.9	4,583.5	1,889.8	1,112.3	490.6	201.7	342.0
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	807.4	520.7	12.2	-	265.8	-	1.3	-	2.3	5.1
AGRICULTURAL COOPERATIVE SERVICE	1.8	.9	-	-	.9	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1.5	1.5	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	412.0	359.9	10.0	-	38.2	-	.8	-	1.2	1.8
COOPERATIVE STATE RESEARCH SERVICE	221.2	7.8	-	-	212.7	-	-	-	.7	-
ECONOMIC RESEARCH SERVICE	39.4	39.0	-	-	.4	-	-	-	-	-
FOREST SERVICE	110.4	99.6	*	-	9.7	-	.5	-	.3	.2
HUMAN NUTRITION INFORMATION SERVICE	9.2	3.3	2.2	-	3.7	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	4.0	.9	-	-	-	-	-	-	-	3.1
OFFICE OF TRANSPORTATION	1.0	1.0	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7.0	6.8	-	-	.2	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	4,864.4	594.0	1,215.4	1,205.5	304.6	1,375.0	50.2	85.8	11.3	22.7
BUREAU OF THE CENSUS	3.8	3.7	-	-	.1	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	8.4	2.0	1.1	-	1.9	-	2.4	-	1.0	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 2/	4,583.5	367.9	1,201.8	1,205.5	269.2	1,375.0	46.1	85.5	10.1	22.5
NATIONAL BUREAU OF STANDARDS	90.3	83.7	4.5	-	2.0	-	.2	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	166.3	124.7	8.1	-	31.3	*	1.5	.3	.2	.1
NAT'L TELECOMM & INFORMATION ADMIN	11.3	11.3	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.1	*	-	-	-	-	-	-	-	.1
PATENT AND TRADEMARK OFFICE	.6	.6	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	20,602.3	5,285.5	13,651.0	111.2	677.0	226.4	190.1	383.2	.2	77.6
DEPARTMENT OF THE ARMY	3,702.2	1,411.8	2,151.4	1.8	68.8	28.8	25.5	9.6	.2	4.3
DEPARTMENT OF THE NAVY	5,820.2	1,507.9	3,809.4	102.7	249.6	26.1	59.0	7.2	-	58.3
DEPARTMENT OF THE AIR FORCE	9,355.8	1,808.1	6,745.9	-	298.3	96.1	71.2	324.8	-	11.4
DEFENSE AGENCIES	1,673.2	513.0	942.9	6.7	60.1	75.4	34.3	37.1	-	3.7
DIRECTOR OF TEST & EVALUATION, DEFENSE	50.9	44.8	1.5	-	.1	-	-	4.5	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,967.9	894.8	153.4	28.0	2,231.3	15	41.0	1.8	70.3	32.9
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	252.2	107.0	3.0	-	113.1	-	22.2	-	5.1	1.7
CENTERS FOR DISEASE CONTROL	70.5	50.6	6.3	-	6.0	-	5.5	-	.2	2.0
FOOD & DRUG ADMINISTRATION	72.7	58.8	4.0	-	5.8	-	4.1	-	-	-
HEALTH CARE FINANCING ADMIN	29.5	2.4	10.9	-	7.8	-	3.4	-	5.0	-
HEALTH RESOURCES ADMINISTRATION	2.5	.1	-	-	2.2	-	.2	-	-	-
HEALTH SERVICES ADMINISTRATION	4.0	1.5	-	-	.5	-	1.1	-	.3	.6
HUMAN DEVELOPMENT SERVICES	61.3	4.9	6.6	-	31.1	-	12.6	-	4.1	1.9
NATIONAL INSTITUTES OF HEALTH	3,428.7	651.6	117.3	28.0	2,054.4	15.4	484.6	1.8	49.3	26.2
OFFICE OF ASST'T SECY FOR HEALTH	16.6	5.3	1.7	-	8.3	-	.7	-	-	.4
OFFICE OF THE SECRETARY	13.4	1.3	1.3	-	1.0	-	5.2	-	4.6	-
SOCIAL SECURITY ADMINISTRATION	16.5	11.2	2.2	-	1.0	-	.3	-	1.8	*
DEPT OF HOUSING & URBAN DEVELOPMENT	34.5	11.0	9.6	-	4.3	-	8.6	-	1.0	-
DEPARTMENT OF THE INTERIOR, TOTAL	403.4	257.4	59.6	.1	32.2	1.5	3.6	.8	47.5	.5
BONNEVILLE POWER ADMINISTRATION	18.7	4.9	10.9	-	.7	-	-	.6	1.8	-
BUREAU OF LAND MANAGEMENT	2.0	.7	-	-	1.3	-	-	-	-	-
BUREAU OF MINES	94.6	45.8	36.0	-	9.0	.3	3.0	.2	.3	-
BUREAU OF RECLAMATION	10.4	5.6	1.5	-	2.3	-	-	-	.9	-
GEOLOGICAL SURVEY	157.8	144.0	3.8	-	9.1	.8	-	-	-	-
NATIONAL PARK SERVICE	11.1	7.8	.9	.1	2.2	-	.1	-	*	-
OFFICE OF THE SECRETARY	.6	.1	-	-	-	-	-	-	-	.5
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1.0	.3	.5	-	.2	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	12.8	2.0	5.5	-	5.4	-	-	-	-	-
US FISH & WILDLIFE SERVICE	94.3	46.3	.6	-	2.0	.4	.5	.1	44.5	-
DEPARTMENT OF JUSTICE, TOTAL	30.0	3.9	9.2	-	7.3	-	7.3	-	2.3	-
DRUG ENFORCEMENT ADMINISTRATION	3.4	.8	2.6	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	2.1	.3	1.9	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	2.6	1.0	-	-	.5	-	-	-	1.1	-
IMMIGRATION & NATURALIZATION SVC	1.3	.1	1.2	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	.9	*	.6	-	.3	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	19.7	1.7	3.0	-	6.5	-	7.3	-	1.2	-
DEPARTMENT OF LABOR, TOTAL	30.8	16.1	8.9	-	4.4	-	1.3	-	.1	-
BUREAU OF LABOR STATISTICS	.3	.3	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	2.0	1.3	.7	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	21.3	12.5	3.0	-	4.4	-	1.3	-	.1	-
LABOR-MANAGEMENT SERVICES ADMIN	.6	.6	-	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4.9	.4	4.5	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.9	.9	-	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	.8	.1	.7	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	2.0	1.0	.7	.1	.1	-	.1	-	-	-
DEPARTMENTAL FUNDS	2.0	1.0	.7	.1	.1	-	.1	-	-	-

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TABLE C-8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	327.8	97.6	145.6	-	23.5	3.7	19.2	0.3	37.9	-
COAST GUARD	18.0	8.3	9.7	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	96.7	27.2	55.7	-	.3	3.7	9.9	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	49.9	11.5	5.7	-	8.3	-	1.3	-	23.0	-
FEDERAL RAILROAD ADMINISTRATION	35.6	12.7	19.9	-	.6	-	.9	-	1.5	-
MARITIME ADMINISTRATION	9.3	.5	7.1	-	1.0	-	.3	.3	.2	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	54.7	8.2	32.8	-	4.0	-	3.4	-	6.2	-
OFFICE OF THE SECRETARY	4.0	3.2	.7	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	11.2	6.9	1.5	-	2.7	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	48.4	19.1	12.4	-	6.6	-	3.3	-	7.0	-
DEPARTMENT OF THE TREASURY, TOTAL	12.1	7.6	4.3	.1	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	4.0	2.9	1.1	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	5.1	4.6	.5	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	*	*	*	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	2.9	.1	2.8	.1	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.9	1.9	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.4	.1	.2	-	-	-	-	-	.2	-
CONSUMER PRODUCT SAFETY COMMISSION ...	0.2	0.2	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	317.1	140.2	72.0	-	44.1	-	35.4	-	24.1	1.3
FEDERAL COMMUNICATIONS COMMISSION	1.0	.9	*	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9.3	2.7	3.2	0.2	1.2	0.3	1.6	0.2	.2	-
FEDERAL HOME LOAN BANK BOARD	1.2	1.0	.1	-	.1	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.2	1.2	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	84.9	15.6	9.4	-	32.2	-	24.9	-	2.6	.3
GENERAL SERVICES ADMINISTRATION	.8	.4	.1	-	-	-	.4	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	1.5	.1	.5	-	.4	-	.5	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	155.9	7.4	9.8	-	60.1	-	2.5	-	-	76.0
AGENCY FOR INTERNAT'L DEVELOPMENT ..	155.9	7.4	9.8	-	60.1	-	2.5	-	-	76.0
INTERNATIONAL TRADE COMMISSION	3.6	3.6	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	5.3	4.9	.4	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	5,841.3	1,395.7	3,807.2	-	191.0	164.6	162.3	.7	.1	119.7
NATIONAL SCIENCE FOUNDATION	959.6	113.4	31.7	1.7	697.4	71.8	40.2	.1	1.6	1.8
NUCLEAR REGULATORY COMMISSION	215.8	23.6	7.1	130.1	4.2	31.0	1.1	17.7	.2	.9
OFFICE OF PERSONNEL MANAGEMENT	5.8	5.0	.2	-	.5	-	-	-	-	-
SMITHSONIAN INSTITUTION	47.6	44.4	-	-	-	-	-	-	-	3.2
TENNESSEE VALLEY AUTHORITY	81.7	60.5	-	-	-	-	21.2	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	.7	*	.3	-	*	.1	.2	*	-	-
VETERANS ADMINISTRATION	135.0	132.8	.2	-	1.7	-	.4	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	42,973.8	10,164.3	22,442.6	1,441.9	4,720.0	1,962.8	1,165.7	558.2	204.5	313.8
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	838.9	547.0	16.3	-	267.0	-	1.3	-	2.2	5.1
AGRICULTURAL COOPERATIVE SERVICE	1.4	1.3	.1	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	454.5	393.8	13.0	-	43.7	-	.8	-	1.2	1.9
COOPERATIVE STATE RESEARCH SERVICE	223.3	7.2	-	-	215.4	-	-	-	.7	-
ECONOMIC RESEARCH SERVICE	40.6	40.2	-	-	.4	-	-	-	-	-
FOREST SERVICE	98.0	91.6	*	-	5.4	-	.5	-	.3	.1
HUMAN NUTRITION INFORMATION SERVICE	8.3	3.1	3.2	-	2.0	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	3.9	.9	-	-	-	-	-	-	-	3.0
OFFICE OF TRANSPORTATION	.9	.9	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	8.0	7.8	-	-	.2	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	4,178.9	354.5	859.7	1,158.4	269.9	1,414.3	44.0	55.3	3.2	19.6
BUREAU OF THE CENSUS	4.1	3.9	-	-	.2	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 2/	3,944.2	148.4	849.6	1,158.4	254.1	1,413.8	42.3	55.3	2.9	19.6
NATIONAL BUREAU OF STANDARDS	80.3	75.5	2.2	-	2.5	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	140.8	117.1	7.9	-	13.2	.5	1.7	-	.3	*
NAT'L TELECOMM & INFORMATION ADMIN	8.9	8.9	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	.7	.7	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	24,519.6	5,977.7	16,609.9	118.4	796.9	244.0	245.1	474.1	.2	53.3
DEPARTMENT OF THE ARMY	4,594.3	1,597.6	2,801.4	2.3	98.9	31.4	45.4	11.7	.2	5.4
DEPARTMENT OF THE NAVY	6,251.4	1,660.9	4,078.5	111.6	252.7	31.5	76.5	10.4	-	29.2
DEPARTMENT OF THE AIR FORCE	11,405.0	1,900.5	8,551.9	-	358.9	104.2	89.4	386.9	-	13.3
DEFENSE AGENCIES	2,210.5	766.4	1,176.3	4.5	86.4	77.0	33.8	60.7	-	5.4
DIRECTOR OF TEST & EVALUATION, DEFENSE	58.4	52.3	1.7	-	-	-	-	4.4	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,117.8	934.9	157.8	33.8	2,284.8	17.1	540.8	2.0	91.7	34.9
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	288.7	124.2	3.6	-	125.4	-	27.7	-	6.0	1.8
CENTERS FOR DISEASE CONTROL	72.0	54.0	4.0	-	6.4	-	5.4	-	.2	2.1
FOOD & DRUG ADMINISTRATION	74.7	60.0	4.5	-	6.0	-	4.2	-	-	-
HEALTH CARE FINANCING ADMIN	30.0	2.5	11.1	-	7.9	-	3.5	-	5.0	-
HEALTH SERVICES ADMINISTRATION	1.9	1.3	-	-	-	-	-	-	-	.6
HUMAN DEVELOPMENT SERVICES	64.5	4.1	2.0	-	28.1	-	9.2	-	19.6	1.5
NATIONAL INSTITUTES OF HEALTH	3,534.6	671.0	125.0	33.8	2,100.1	17.1	503.6	2.0	53.7	28.3
OFFICE OF ASST'T SECY FOR HEALTH	16.9	4.7	1.6	-	9.3	-	.7	-	-	.7
OFFICE OF THE SECRETARY	14.7	1.5	1.4	-	1.0	-	5.8	-	5.0	-
SOCIAL SECURITY ADMINISTRATION	19.8	11.7	4.6	-	.5	-	.8	-	2.1	-
DEPT OF HOUSING & URBAN DEVELOPMENT	31.1	10.1	8.4	-	3.9	-	7.8	-	.9	-
DEPARTMENT OF THE INTERIOR, TOTAL	364.7	245.2	42.3	.1	21.7	1.6	3.7	.3	49.4	.5
BONNEVILLE POWER ADMINISTRATION	21.7	5.5	12.0	-	1.2	-	-	-	3.0	-
BUREAU OF LAND MANAGEMENT	2.7	2.4	-	-	.3	-	-	-	-	-
BUREAU OF MINES	77.9	44.4	25.0	-	4.8	.3	3.0	.2	.2	-
BUREAU OF RECLAMATION	10.1	7.4	1.2	-	1.4	-	-	-	.1	-
GEOLOGICAL SURVEY	149.5	137.8	1.8	-	9.1	.8	-	-	-	-
NATIONAL PARK SERVICE	10.8	7.5	.9	.1	2.2	-	.1	-	*	-
OFFICE OF THE SECRETARY	.6	.1	-	-	-	-	-	-	-	.5
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1.5	.5	.8	-	.2	-	-	-	-	-
US FISH & WILDLIFE SERVICE	89.9	39.7	.6	-	2.5	.5	.5	.1	46.0	-
DEPARTMENT OF JUSTICE, TOTAL	22.0	2.7	7.1	-	4.7	-	5.4	-	2.1	-
DRUG ENFORCEMENT ADMINISTRATION	1.9	.6	1.3	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1.1	.3	.8	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	2.6	1.0	-	-	.5	-	-	-	1.1	-
IMMIGRATION & NATURALIZATION SVC	.4	.1	.3	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	.8	*	.6	-	.2	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	15.2	.8	4.1	-	4.0	-	5.4	-	1.0	-
DEPARTMENT OF LABOR, TOTAL	9.9	3.7	6.2	-	-	-	-	-	-	-
BUREAU OF LABOR STATISTICS	.3	.3	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	1.9	1.4	.5	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	.6	.6	-	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	5.7	.4	5.3	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.9	.9	-	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	.5	.1	.4	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1.8	.9	.6	.1	.1	-	.1	.1	-	-
DEPARTMENTAL FUNDS	1.8	.9	.6	.1	.1	-	.1	.1	-	-

CONTINUED ON NEXT PAGE

TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	366.5	90.5	191.9	-	22.4	-	13.4	11.3	37.0	-
COAST GUARD	15.0	7.7	7.4	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	151.5	31.5	104.0	-	.5	-	4.2	11.3	-	-
FEDERAL HIGHWAY ADMINISTRATION	51.8	12.0	5.9	-	8.7	-	1.4	-	23.9	-
FEDERAL RAILROAD ADMINISTRATION	20.0	7.1	11.2	-	.3	-	.5	-	.8	-
MARITIME ADMINISTRATION	16.8	.9	13.4	-	.6	-	1.2	-	.6	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	59.1	6.5	35.7	-	4.3	-	3.8	-	6.8	-
OFFICE OF THE SECRETARY	7.8	3.5	4.2	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	10.5	6.0	1.5	-	3.1	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	34.0	13.3	8.7	-	4.8	-	2.4	-	4.8	-
DEPARTMENT OF THE TREASURY, TOTAL	13.2	8.1	5.0	0.1	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2.2	2.0	.2	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	7.9	6.0	2.0	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	3.0	.1	2.8	.1	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.9	1.9	-	-	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	0.6	0.4	0.2	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	229.9	109.7	51.2	-	25.3	-	29.9	-	12.7	1.2
FEDERAL COMMUNICATIONS COMMISSION	.7	.6	.1	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	18.1	4.5	7.2	0.4	1.1	0.7	3.4	0.4	.4	-
FEDERAL HOME LOAN BANK BOARD	1.5	1.1	.3	-	.1	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.3	1.3	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	87.0	15.3	8.3	-	34.5	-	26.0	-	2.7	.2
GENERAL SERVICES ADMINISTRATION	1.5	.2	.3	-	-	-	1.0	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	.2	.2	*	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	132.0	5.7	6.6	-	42.0	-	2.3	-	-	75.4
AGENCY FOR INTERNAT'L DEVELOPMENT ..	132.0	5.7	6.6	-	42.0	-	2.3	-	-	75.4
INTERNATIONAL TRADE COMMISSION	4.0	4.0	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	5.3	4.9	.4	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	6,512.9	1,421.6	4,420.0	-	191.0	178.8	181.0	.7	.1	119.7
NATIONAL SCIENCE FOUNDATION	1,025.1	126.4	28.7	1.8	748.2	78.0	39.2	.5	1.7	1.0
NUCLEAR REGULATORY COMMISSION	213.5	22.7	13.4	128.9	4.5	28.2	.8	13.9	.2	.9
OFFICE OF PERSONNEL MANAGEMENT	5.1	4.5	.2	-	.4	-	-	-	-	-
SMITHSONIAN INSTITUTION	51.0	48.9	-	-	-	-	-	-	-	2.1
TENNESSEE VALLEY AUTHORITY	74.2	74.2	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1.2	.1	.4	-	.1	.1	.3	.2	-	-
VETERANS ADMINISTRATION	142.6	140.8	-	-	1.4	-	.4	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-10. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT TO FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS, BY AGENCY: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	RESEARCH AND DEVELOPMENT				R&D PLANT			
	TOTAL, ALL FFRDC'S	FFRDC'S ADMIN BY INDUS-TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS	TOTAL, ALL FFRDC'S	FFRDC'S ADMIN BY INDUS-TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS
TOTAL, ALL AGENCIES	3,767,640	1,413,894	1,828,515	525,231	632,492	246,549	370,878	15,065
DEPARTMENTS								
DEPARTMENT OF COMMERCE, TOTAL	2,739,515	1,154,797	1,400,604	184,114	610,902	241,192	355,104	14,606
ENERGY RESEARCH & TECHNOLOGY ADMIN 1/.	2,738,681	1,154,747	1,399,914	184,020	610,902	241,192	355,104	14,606
NAT'L OCEANIC & ATMOSPHERIC ADMIN	834	50	690	94	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	610,222	105,480	185,835	318,907	1,048	-	1,048	-
DEPARTMENT OF THE ARMY	36,458	3,573	24,293	8,592	-	-	-	-
DEPARTMENT OF THE NAVY	122,971	96,023	20,607	6,341	-	-	-	-
DEPARTMENT OF THE AIR FORCE	353,331	-	82,402	270,929	-	-	-	-
DEFENSE AGENCIES	94,310	5,884	58,533	29,893	1,048	-	1,048	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	3,152	-	-	3,152	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	44,641	27,925	14,996	1,720	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	44,641	27,925	14,996	1,720	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,997	58	1,631	308	-	-	-	-
BONNEVILLE POWER ADMINISTRATION	107	-	19	88	-	-	-	-
BUREAU OF MINES	455	-	285	170	-	-	-	-
GEOLOGICAL SURVEY	931	-	931	-	-	-	-	-
NATIONAL PARK SERVICE	58	58	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	446	-	396	50	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	4,000	-	4,000	-	-	-	-	-
COAST GUARD	200	-	200	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	3,800	-	3,800	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	196	-	-	196	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	196	-	-	196	-	-	-	-
OTHER AGENCIES								
FEDERAL EMERGENCY MANAGEMENT AGENCY	497	85	264	148	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	117,196	-	116,546	650	12,479	-	12,479	-
NATIONAL SCIENCE FOUNDATION	72,941	1,664	71,169	108	684	-	684	-
NUCLEAR REGULATORY COMMISSION	175,916	123,885	33,186	18,845	7,379	5,357	1,563	459
US ARMS CONTROL & DISARMAMENT AGENCY	519	-	284	235	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-11. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT TO FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS, BY AGENCY: FISCAL YEAR 1982

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	RESEARCH AND DEVELOPMENT				R&D PLANT			
	TOTAL, ALL FFRDC'S	FFDRC'S ADMIN BY INDUS-TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS	TOTAL, ALL FFRDC'S	FFRDC'S ADMIN BY INDUS-TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS
TOTAL, ALL AGENCIES	3,857,247	1,476,835	1,889,757	490,605	736,014	294,691	433,233	8,090
DEPARTMENTS								
DEPARTMENT OF COMMERCE, TOTAL	2,666,218	1,205,461	1,374,990	85,767	712,800	290,559	414,836	7,405
ENERGY RESEARCH & TECHNOLOGY ADMIN 1/.	2,665,888	1,205,461	1,374,960	85,467	712,800	290,559	414,836	7,405
NAT'L OCEANIC & ATMOSPHERIC ADMIN	330	-	30	300	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	720,801	111,223	226,380	383,198	1,575	-	1,575	-
DEPARTMENT OF THE ARMY	40,189	1,829	28,784	9,576	-	-	-	-
DEPARTMENT OF THE NAVY	136,013	102,705	26,113	7,195	-	-	-	-
DEPARTMENT OF THE AIR FORCE	420,900	-	96,068	324,832	-	-	-	-
DEFENSE AGENCIES	119,206	6,689	75,415	37,102	1,575	-	1,575	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	4,493	-	-	4,493	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	45,299	28,017	15,439	1,843	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	45,299	28,017	15,439	1,843	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	2,418	58	1,520	840	-	-	-	-
BONNEVILLE POWER ADMINISTRATION	560	-	-	560	-	-	-	-
BUREAU OF MINES	500	-	300	200	-	-	-	-
GEOLOGICAL SURVEY	800	-	800	-	-	-	-	-
NATIONAL PARK SERVICE	58	58	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	500	-	420	80	-	-	-	-
DEPARTMENT OF STATE, TOTAL	100	100	-	-	-	-	-	-
DEPARTMENTAL FUNDS	100	100	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	3,997	-	3,697	300	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	3,697	-	3,697	-	-	-	-	-
MARITIME ADMINISTRATION	300	-	-	300	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	75	75	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	75	75	-	-	-	-	-	-
OTHER AGENCIES								
FEDERAL EMERGENCY MANAGEMENT AGENCY	632	158	316	158	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	165,230	-	164,580	650	13,015	-	13,015	-
NATIONAL SCIENCE FOUNDATION	73,544	1,665	71,760	119	2,150	-	2,150	-
NUCLEAR REGULATORY COMMISSION	178,788	130,128	30,975	17,685	6,474	4,132	1,657	685
US ARMS CONTROL & DISARMAMENT AGENCY	145	-	100	45	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-12. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT TO FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS, BY AGENCY: FISCAL YEAR 1983

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	RESEARCH AND DEVELOPMENT				R&D PLANT			
	TOTAL, ALL FFRDC'S	FFDRC'S ADMIN BY INDUS-TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS	TOTAL, ALL FFRDC'S	FFRDC'S ADMIN BY INDUS-TRIAL FIRMS	FFRDC'S ADMIN BY UNIV & COL	FFRDC'S ADMIN BY OTHER NONPROFIT INSTS
TOTAL, ALL AGENCIES	3,962,867	1,441,909	1,962,751	558,207	469,266	189,474	274,477	5,315
DEPARTMENTS								
DEPARTMENT OF COMMERCE, TOTAL	2,627,937	1,158,418	1,414,250	55,269	457,166	185,754	266,717	4,695
ENERGY RESEARCH & TECHNOLOGY ADMIN 1/.	2,627,437	1,158,418	1,413,750	55,269	457,166	185,754	266,717	4,695
NAT'L OCEANIC & ATMOSPHERIC ADMIN	500	-	500	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	836,539	118,390	244,046	474,103	75	-	75	-
DEPARTMENT OF THE ARMY	45,360	2,274	31,420	11,666	-	-	-	-
DEPARTMENT OF THE NAVY	153,491	111,614	31,459	10,418	-	-	-	-
DEPARTMENT OF THE AIR FORCE	491,014	-	104,150	386,864	-	-	-	-
DEFENSE AGENCIES	142,266	4,502	77,017	60,747	75	-	75	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	4,408	-	-	4,408	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	52,975	33,826	17,108	2,041	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	52,975	33,826	17,108	2,041	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,908	58	1,550	300	-	-	-	-
BUREAU OF MINES	500	-	300	200	-	-	-	-
GEOLOGICAL SURVEY	800	-	800	-	-	-	-	-
NATIONAL PARK SERVICE	58	58	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	550	-	450	100	-	-	-	-
DEPARTMENT OF STATE, TOTAL	100	50	-	50	-	-	-	-
DEPARTMENTAL FUNDS	100	50	-	50	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	11,293	-	-	11,293	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	11,293	-	-	11,293	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	100	100	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	100	100	-	-	-	-	-	-
OTHER AGENCIES								
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,446	361	723	362	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	179,473	-	178,823	650	4,515	-	4,515	-
NATIONAL SCIENCE FOUNDATION	79,862	1,779	77,954	129	1,682	-	1,682	-
NUCLEAR REGULATORY COMMISSION	170,939	128,927	28,152	13,860	5,828	3,720	1,488	620
US ARMS CONTROL & DISARMAMENT AGENCY	295	-	145	150	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-13. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT TO FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDC'S), BY INDIVIDUAL FFRDC AND AGENCY: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS	TOTAL	DEPT OF COMMERCE 1/	DEPT OF DEFENSE	DEPT OF HEALTH & HUMAN SERVICES	NATIONAL AERO-NAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDA-TION	OTHER
TOTAL, ALL FFRDC'S	4,400,132	3,350,417	611,270	44,641	129,675	73,625	190,504
FFRDC'S ADMIN BY INDUSTRIAL FIRMS	1,660,443	1,395,989	105,480	27,925	-	1,664	129,385
BETTIS ATOMIC POWER LAB	265,871	194,359	45,146	26,366	-	-	-
ENERGY TECH ENGINEERING CTR	37,143	36,925	-	-	-	-	218
HANFORD ENGINEERING DEV LAB	193,943	192,888	-	-	-	-	1,055
IDAHO NAT'L ENGINEERING LAB	149,200	67,686	-	-	-	-	81,514
KNOLLS ATOMIC POWER LAB	195,478	142,942	50,711	-	-	-	1,825
MOUND LABORATORY	13,995	13,675	-	-	-	-	320
OAK RIDGE NATIONAL LAB	255,800	232,343	161	1,193	-	1,664	20,439
SANDIA NATIONAL LABORATORIES	507,929	474,292	9,462	366	-	-	23,809
SAVANNAH RIVER LABORATORY	41,084	40,879	-	-	-	-	205
FFRDC'S ADMIN BY UNIVS & COLS	2,199,393	1,755,708	186,883	14,996	129,025	71,853	40,928
AMES LABORATORY	17,520	16,667	461	-	192	-	200
ARGONNE NATIONAL LABORATORY	223,300	215,995	113	542	-	-	6,650
BROOKHAVEN NATIONAL LAB	179,392	165,874	50	3,218	-	390	9,860
CENTER FOR NAVAL ANALYSES	15,441	-	15,287	-	-	154	-
CERRO TOLOLO INTER-AMERICAN OBS	6,052	-	240	-	-	5,812	-
E.O. LAWRENCE BERKELEY LAB	120,867	111,120	578	8,312	50	613	194
E.O. LAWRENCE LIVERMORE NAT'L LAB	506,395	464,538	33,266	1,179	-	-	7,412
FERMILAB	120,266	120,266	-	-	-	-	-
JET PROPULSION LABORATORY	188,153	54,918	4,742	103	128,370	20	-
KITT PEAK NAT'L OBSERVATORY	11,103	-	-	-	-	11,103	-
LINCOLN LABORATORY	137,751	10,408	123,130	-	413	-	3,800
LOS ALAMOS NATIONAL LAB	424,221	401,158	9,016	1,178	-	57	12,812
NAT'L ASTRONOMY & IONOSPHERE CTR	5,407	-	-	-	-	5,407	-
NAT'L CENTER FOR ATMOSPHERIC RSCH	32,337	690	-	-	-	31,647	-
NAT'L RADIO ASTRONOMY OBSERVATORY	14,790	-	-	-	-	14,790	-
OAK RIDGE INST OF NUCLEAR STUDIES	24,414	23,950	-	464	-	-	-
PLASMA PHYSICS LABORATORY	105,627	105,627	-	-	-	-	-
SACRAMENTO PEAK OBSERVATORY	1,860	-	-	-	-	1,860	-
STANFORD LINEAR ACCELERATOR CTR	64,497	64,497	-	-	-	-	-
FFRDC'S ADMIN BY OTHER NONPROFIT INSTS	540,296	198,720	318,907	1,720	650	108	20,191
AEROSPACE CORPORATION	189,634	3,475	185,312	-	413	83	401
INST FOR DEFENSE ANALYSES	14,249	-	14,401	-	-	-	148
MITRE CORP - C3 DIVISION	105,707	-	105,707	-	-	-	-
PACIFIC NORTHWEST LABORATORY	106,036	84,872	525	821	151	25	19,642
RAND - PROJECT AIR FORCE	13,947	-	12,962	899	86	-	-
SOLAR ENERGY RESEARCH INST	110,373	110,373	-	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-14. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL, UNITED STATES AND TERRITORIES: INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	12,212,780	4,034,199	1,958,306	351,344	3,920,144	940,602	705,197	67,704	129,312	105,972
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	740,984	481,889	8,324	-	240,383	-	2,205	-	3,557	4,626
AGRICULTURAL COOPERATIVE SERVICE	1,739	1,213	-	-	526	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	907	877	-	-	30	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	367,922	321,276	8,271	-	32,546	-	1,627	-	2,534	1,668
COOPERATIVE STATE RESEARCH SERVICE	199,383	7,137	-	-	191,573	-	-	-	673	-
ECONOMIC RESEARCH SERVICE	39,343	37,496	-	-	1,847	-	-	-	-	-
FOREST SERVICE	119,859	105,699	53	-	13,013	-	578	-	350	166
OFF OF INTERNAT'L COOPERATION & DEV	3,561	769	-	-	-	-	-	-	-	2,792
OFFICE OF TRANSPORTATION	770	770	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,500	6,652	-	-	848	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,662,980	265,276	146,760	156,815	289,103	720,424	36,662	32,147	8,573	7,220
BUREAU OF THE CENSUS	3,016	2,851	-	-	165	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,800	202	225	-	800	-	573	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 2/	1,413,605	76,803	139,077	156,765	248,069	719,801	34,517	32,053	45	6,475
NATIONAL BUREAU OF STANDARDS	66,206	62,924	1,301	-	1,416	-	132	-	-	433
NAT'L OCEANIC & ATMOSPHERIC ADMIN	168,496	112,639	6,157	50	38,653	623	1,440	94	8,528	312
NAT'L TELECOMM & INFORMATION ADMIN	9,857	9,857	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,600,900	1,027,016	1,006,089	50,196	362,966	64,780	60,689	13,877	139	15,148
DEPARTMENT OF THE ARMY	536,455	327,585	135,295	-	55,545	1,439	11,693	980	139	3,779
DEPARTMENT OF THE NAVY	698,000	374,981	128,712	44,312	133,402	4,808	6,374	1,633	-	3,778
DEPARTMENT OF THE AIR FORCE	617,300	188,357	268,743	-	134,487	-	19,095	600	-	6,018
DEFENSE AGENCIES	749,145	136,093	473,339	5,884	39,532	58,533	23,527	10,664	-	1,573
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,492,241	791,312	116,520	18,641	2,000,154	13,461	465,859	1,523	60,619	24,152
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	237,684	79,039	4,437	-	116,316	-	30,927	-	5,386	1,579
CENTERS FOR DISEASE CONTROL	74,822	52,777	9,106	-	6,394	-	5,219	-	332	994
FOOD & DRUG ADMINISTRATION	71,400	57,857	3,818	-	5,726	-	3,999	-	-	-
HEALTH CARE FINANCING ADMIN	38,623	3,185	14,278	-	10,075	-	4,493	-	6,592	-
HEALTH RESOURCES ADMINISTRATION	5,038	88	-	-	4,516	-	434	-	-	-
HEALTH SERVICES ADMINISTRATION	10,236	5,978	-	-	2,503	-	1,306	-	222	227
HUMAN DEVELOPMENT SERVICES	39,897	2,530	1,534	-	23,739	-	8,071	-	3,043	980
NATIONAL INSTITUTES OF HEALTH	2,948,309	566,035	77,555	18,641	1,812,950	13,461	401,688	1,523	36,594	19,862
OFFICE OF ASST'T SECY FOR HEALTH	28,754	10,697	3,660	-	12,585	-	1,526	-	-	286
OFFICE OF THE SECRETARY	19,500	1,920	1,890	-	1,515	-	7,560	-	6,615	-
SOCIAL SECURITY ADMINISTRATION	17,978	11,206	242	-	3,835	-	636	-	1,835	224
DEPT OF HOUSING & URBAN DEVELOPMENT	16,690	15,485	67	-	240	-	767	-	131	-
DEPARTMENT OF THE INTERIOR, TOTAL	369,837	246,998	39,855	58	34,319	1,412	1,490	171	44,943	591
BONNEVILLE POWER ADMINISTRATION	6,491	1,807	3,574	-	269	-	-	71	770	-
BUREAU OF LAND MANAGEMENT	1,458	770	-	-	688	-	-	-	-	-
BUREAU OF MINES	68,000	38,000	27,400	-	1,500	85	965	50	-	-
BUREAU OF RECLAMATION	13,387	7,434	1,765	-	3,215	-	-	-	973	-
GEOLOGICAL SURVEY	169,277	155,464	3,892	-	8,990	931	-	-	-	-
NATIONAL PARK SERVICE	10,351	7,160	828	58	2,175	-	125	-	5	-
OFFICE OF THE SECRETARY	1,514	615	308	-	-	-	-	-	-	591
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	5,794	1,563	424	-	3,807	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	15,790	2,170	1,230	-	12,390	-	-	-	-	-
US FISH & WILDLIFE SERVICE	77,775	32,015	434	-	1,285	396	400	50	43,195	-
DEPARTMENT OF JUSTICE, TOTAL	19,503	1,471	3,328	-	7,311	-	6,149	-	1,150	94
DRUG ENFORCEMENT ADMINISTRATION	400	100	300	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,657	457	-	-	500	-	-	-	700	-
IMMIGRATION & NATURALIZATION SVC	70	47	23	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	700	100	500	-	100	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	16,676	767	2,505	-	6,711	-	6,149	-	450	94
DEPARTMENT OF LABOR, TOTAL	58,197	34,910	8,124	-	7,264	-	7,736	-	163	-
BUREAU OF LABOR STATISTICS	251	251	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	3,200	2,720	293	-	10	-	177	-	-	-
EMPLOYMENT & TRAINING ADMIN	48,794	29,753	4,829	-	6,905	-	7,144	-	163	-
LABOR-MANAGEMENT SERVICES ADMIN	1,752	1,053	45	-	297	-	357	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	3,000	20	2,870	-	52	-	58	-	-	-
OFFICE OF THE SECRETARY	1,100	1,100	-	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	100	13	87	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,606	1,015	536	-	55	-	-	-	-	-
DEPARTMENTAL FUNDS	1,606	1,015	536	-	55	-	-	-	-	-

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TABLE C-14. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	88,589	29,228	44,102	-	8,276	200	3,924	-	2,859	-
COAST GUARD	14,963	5,509	8,984	-	270	200	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	8,200	1,804	6,396	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,100	1,224	1,112	-	1,525	-	1,076	-	163	-
FEDERAL RAILROAD ADMINISTRATION	6,200	4,774	1,426	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	9,526	250	8,297	-	400	-	500	-	79	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	29,400	8,767	15,156	-	2,047	-	1,377	-	2,053	-
OFFICE OF THE SECRETARY	700	385	315	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,200	3,383	200	-	1,617	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	9,300	3,132	2,216	-	2,417	-	971	-	564	-
DEPARTMENT OF THE TREASURY, TOTAL	5,219	3,614	1,555	-	-	-	-	50	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	100	50	-	-	-	-	-	50	-	-
BUREAU OF ENGRAVING AND PRINTING ...	907	832	75	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	4,158	2,722	1,436	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	54	10	44	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,211	2,211	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	280	10	75	-	-	-	-	-	195	-
COMMUNITY SERVICES ADMINISTRATION	1,927	40	-	-	-	-	1,887	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	210	100	110	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	218,300	107,436	52,472	-	48,425	-	5,632	-	3,178	1,157
FEDERAL COMMUNICATIONS COMMISSION	1,815	1,142	673	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,088	2,900	2,606	85	1,646	264	1,319	148	120	-
FEDERAL HOME LOAN BANK BOARD	1,036	949	87	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,100	1,100	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	53,788	7,411	7,499	-	22,616	-	14,422	-	1,682	158
GENERAL SERVICES ADMINISTRATION	390	239	118	-	-	-	33	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	1,116	195	9	-	446	-	466	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	86,400	5,172	3,804	-	32,754	-	2,157	-	-	42,513
AGENCY FOR INTERNAT'L DEVELOPMENT ..	86,400	5,172	3,804	-	32,754	-	2,157	-	-	42,513
INTERNATIONAL TRADE COMMISSION	3,397	3,397	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	900	900	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,407,158	691,988	479,224	-	157,152	35,422	39,116	600	79	3,577
NATIONAL SCIENCE FOUNDATION	955,464	106,052	29,323	1,664	697,884	71,169	45,623	108	1,428	2,213
NUCLEAR REGULATORY COMMISSION	219,667	25,114	6,501	123,885	8,123	33,186	2,696	18,845	496	821
OFFICE OF PERSONNEL MANAGEMENT	3,387	2,488	117	-	744	-	38	-	-	-
SMITHSONIAN INSTITUTION	44,861	41,159	-	-	-	-	-	-	-	3,702
TENNESSEE VALLEY AUTHORITY	14,200	8,332	-	-	-	-	5,868	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1,639	150	428	-	83	284	459	235	-	-
VETERANS ADMINISTRATION	127,700	127,500	-	-	200	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	12,594,982	4,152,320	1,974,792	417,506	3,996,858	1,019,180	697,621	87,480	123,450	125,775
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	775,339	492,619	11,467	-	263,051	-	1,272	-	2,195	4,735
AGRICULTURAL COOPERATIVE SERVICE	1,808	908	-	-	900	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1,177	1,177	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	385,755	337,064	9,423	-	35,652	-	735	-	1,151	1,730
COOPERATIVE STATE RESEARCH SERVICE	221,216	7,766	-	-	212,722	-	-	-	728	-
ECONOMIC RESEARCH SERVICE	39,360	38,989	-	-	371	-	-	-	-	-
FOREST SERVICE	105,977	95,225	44	-	9,700	-	537	-	316	155
HUMAN NUTRITION INFORMATION SERVICE	8,500	3,000	2,000	-	3,500	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	3,684	834	-	-	-	-	-	-	-	2,850
OFFICE OF TRANSPORTATION	862	862	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,000	6,794	-	-	206	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,762,201	254,785	166,677	208,066	272,451	769,639	32,525	48,982	284	8,792
BUREAU OF THE CENSUS	2,837	2,757	-	-	80	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,900	402	750	-	-	-	748	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 2/	1,542,272	75,751	159,890	208,066	241,137	769,609	30,443	48,682	45	8,649
NATIONAL BUREAU OF STANDARDS	71,871	67,874	2,031	-	1,816	-	150	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	133,163	97,900	4,006	-	29,418	30	1,184	300	239	86
NAT'L TELECOMM & INFORMATION ADMIN	10,091	10,091	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	67	10	-	-	-	-	-	-	-	57
DEPARTMENT OF DEFENSE, TOTAL	2,883,120	1,117,466	1,107,756	58,472	408,666	81,293	72,681	17,180	150	19,456
DEPARTMENT OF THE ARMY	583,523	346,550	155,304	-	61,819	2,100	13,190	595	150	3,815
DEPARTMENT OF THE NAVY	770,600	388,314	157,345	51,783	151,261	3,778	10,354	1,580	-	6,185
DEPARTMENT OF THE AIR FORCE	592,400	179,820	250,603	-	137,843	-	17,744	600	-	5,790
DEFENSE AGENCIES	936,597	202,782	544,504	6,689	57,743	75,415	31,393	14,405	-	3,666
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,554,195	821,072	110,301	18,859	2,049,313	13,937	452,470	1,671	58,546	28,026
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	250,708	106,029	3,009	-	113,096	-	21,725	-	5,110	1,739
CENTERS FOR DISEASE CONTROL	70,529	50,553	6,300	-	6,010	-	5,478	-	200	1,988
FOOD & DRUG ADMINISTRATION	72,700	58,800	4,000	-	5,800	-	4,100	-	-	-
HEALTH CARE FINANCING ADMIN	29,500	2,433	10,905	-	7,778	-	3,432	-	4,952	-
HEALTH RESOURCES ADMINISTRATION	2,488	88	-	-	2,200	-	200	-	-	-
HEALTH SERVICES ADMINISTRATION	1,920	1,333	-	-	-	-	-	-	-	587
HUMAN DEVELOPMENT SERVICES	35,095	2,373	1,488	-	22,441	-	4,669	-	2,179	1,945
NATIONAL INSTITUTES OF HEALTH	3,047,100	582,416	79,555	18,859	1,882,833	13,937	406,748	1,671	39,779	21,302
OFFICE OF ASST'T SECY FOR HEALTH	14,188	4,485	1,496	-	7,138	-	644	-	-	425
OFFICE OF THE SECRETARY	13,440	1,324	1,304	-	1,032	-	5,216	-	4,564	-
SOCIAL SECURITY ADMINISTRATION	16,527	11,238	2,244	-	985	-	258	-	1,762	40
DEPT OF HOUSING & URBAN DEVELOPMENT	13,001	6,917	338	-	1,209	-	3,874	-	663	-
DEPARTMENT OF THE INTERIOR, TOTAL	349,828	232,748	38,551	58	27,266	1,320	1,640	740	46,965	540
BONNEVILLE POWER ADMINISTRATION	10,959	2,758	5,378	-	475	-	-	560	1,788	-
BUREAU OF LAND MANAGEMENT	1,580	480	-	-	1,100	-	-	-	-	-
BUREAU OF MINES	69,844	38,200	25,000	-	5,444	100	1,000	100	-	-
BUREAU OF RECLAMATION	9,991	5,211	1,498	-	2,340	-	-	-	942	-
GEOLOGICAL SURVEY	157,292	144,000	3,345	-	9,147	800	-	-	-	-
NATIONAL PARK SERVICE	11,093	7,790	900	58	2,200	-	140	-	5	-
OFFICE OF THE SECRETARY	594	54	-	-	-	-	-	-	-	540
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,000	300	500	-	200	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	7,320	1,160	1,450	-	4,710	-	-	-	-	-
US FISH & WILDLIFE SERVICE	80,155	32,795	480	-	1,650	420	500	80	44,230	-
DEPARTMENT OF JUSTICE, TOTAL	19,164	1,456	3,813	-	6,350	-	6,195	-	1,350	-
DRUG ENFORCEMENT ADMINISTRATION	1,000	200	800	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,657	457	-	-	500	-	-	-	700	-
IMMIGRATION & NATURALIZATION SVC	376	47	329	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	804	4	500	-	300	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	15,327	748	2,184	-	5,550	-	6,195	-	650	-
DEPARTMENT OF LABOR, TOTAL	29,251	15,918	8,030	-	4,195	-	1,042	-	66	-
BUREAU OF LABOR STATISTICS	291	291	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	2,000	1,270	730	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	20,359	12,396	2,660	-	4,195	-	1,042	-	66	-
LABOR-MANAGEMENT SERVICES ADMIN	606	606	-	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,900	400	4,500	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	900	900	-	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	195	55	140	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,999	1,049	700	100	100	-	50	-	-	-
DEPARTMENTAL FUNDS	1,999	1,049	700	100	100	-	50	-	-	-

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TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	69,134	26,326	28,730	-	8,286	-	3,196	300	2,296	-
COAST GUARD	10,125	4,658	5,467	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	3,100	1,714	1,386	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,000	1,200	1,090	-	1,495	-	1,055	-	160	-
FEDERAL RAILROAD ADMINISTRATION	6,100	4,758	1,342	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	6,502	250	4,888	-	964	-	-	300	100	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	22,200	6,793	11,445	-	1,546	-	1,040	-	1,376	-
OFFICE OF THE SECRETARY	600	330	270	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,500	2,881	200	-	1,419	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	11,007	3,742	2,642	-	2,862	-	1,101	-	660	-
DEPARTMENT OF THE TREASURY, TOTAL	6,482	5,457	1,025	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,393	819	574	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	5,089	4,638	451	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,884	1,884	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	300	50	150	-	-	-	-	-	100	-
ENVIRONMENTAL PROTECTION AGENCY	216,600	101,295	47,283	-	41,308	-	17,852	-	7,562	1,300
FEDERAL COMMUNICATIONS COMMISSION	953	908	45	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,332	2,664	3,158	158	1,164	316	1,558	158	156	-
FEDERAL HOME LOAN BANK BOARD	1,210	1,028	122	-	60	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,159	1,159	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	41,488	6,672	6,547	-	16,484	-	10,286	-	1,313	186
GENERAL SERVICES ADMINISTRATION	553	70	50	-	-	-	433	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	1,216	57	491	-	328	-	340	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	101,433	5,194	5,044	-	36,139	-	1,800	-	-	53,256
AGENCY FOR INTERNAT'L DEVELOPMENT ..	101,433	5,194	5,044	-	36,139	-	1,800	-	-	53,256
INTERNATIONAL TRADE COMMISSION	3,639	3,639	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	700	700	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,384,813	735,110	395,316	-	158,000	49,840	42,258	600	79	3,610
NATIONAL SCIENCE FOUNDATION	959,594	113,378	31,715	1,665	697,433	71,760	40,181	119	1,565	1,778
NUCLEAR REGULATORY COMMISSION	215,763	23,567	7,071	130,128	4,200	30,975	1,082	17,685	160	895
OFFICE OF PERSONNEL MANAGEMENT	2,807	2,182	80	-	545	-	-	-	-	-
SMITHSONIAN INSTITUTION	47,554	44,353	-	-	-	-	-	-	-	3,201
TENNESSEE VALLEY AUTHORITY	19,100	12,824	-	-	-	-	6,276	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	570	20	160	-	25	100	220	45	-	-
VETERANS ADMINISTRATION	120,600	119,753	172	-	285	-	390	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	13,264,864	4,402,749	2,137,132	407,928	4,130,129	1,107,546	721,484	93,460	140,625	123,811
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	808,180	520,789	15,389	-	263,906	-	1,222	-	2,172	4,702
AGRICULTURAL COOPERATIVE SERVICE	1,436	1,336	100	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	428,249	371,522	12,250	-	40,769	-	735	-	1,151	1,822
COOPERATIVE STATE RESEARCH SERVICE	223,303	7,206	-	-	215,360	-	-	-	737	-
ECONOMIC RESEARCH SERVICE	40,584	40,213	-	-	371	-	-	-	-	-
FOREST SERVICE	94,560	88,209	39	-	5,400	-	487	-	284	141
HUMAN NUTRITION INFORMATION SERVICE	7,600	2,800	3,000	-	1,800	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	3,604	865	-	-	-	-	-	-	-	2,739
OFFICE OF TRANSPORTATION	844	844	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	8,000	7,794	-	-	206	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,685,220	233,622	83,193	191,615	255,932	844,742	29,598	37,179	380	8,959
BUREAU OF THE CENSUS	2,993	2,838	-	-	155	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 2/	1,499,143	70,032	76,557	191,615	242,387	844,242	28,155	37,179	47	8,929
NATIONAL BUREAU OF STANDARDS	72,061	67,314	2,231	-	2,516	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	103,140	85,555	4,405	-	10,874	500	1,443	-	333	30
NAT'L TELECOMM & INFORMATION ADMIN	7,883	7,883	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	3,326,061	1,260,255	1,293,123	61,408	488,739	85,051	78,035	39,090	163	20,197
DEPARTMENT OF THE ARMY	708,631	384,471	209,716	-	86,479	2,826	18,496	1,630	163	4,850
DEPARTMENT OF THE NAVY	851,300	450,517	163,950	56,906	159,813	5,208	9,189	2,608	-	3,109
DEPARTMENT OF THE AIR FORCE	706,200	214,511	300,232	-	160,487	-	23,303	800	-	6,867
DEFENSE AGENCIES	1,059,930	210,756	619,225	4,502	81,960	77,017	27,047	34,052	-	5,371
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,703,265	861,601	117,621	23,730	2,104,329	15,316	475,566	1,840	73,507	29,755
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	236,980	123,076	3,554	-	125,414	-	27,086	-	6,007	1,843
CENTERS FOR DISEASE CONTROL	72,019	53,982	4,000	-	6,400	-	5,457	-	200	2,080
FOOD & DRUG ADMINISTRATION	74,700	60,000	4,500	-	6,000	-	4,200	-	-	-
HEALTH CARE FINANCING ADMIN	30,000	2,474	11,090	-	7,910	-	3,490	-	5,036	-
HEALTH SERVICES ADMINISTRATION	1,865	1,300	-	-	-	-	-	-	-	565
HUMAN DEVELOPMENT SERVICES	42,357	1,925	500	-	21,711	-	4,844	-	11,904	1,473
NATIONAL INSTITUTES OF HEALTH	3,146,300	601,680	86,548	23,730	1,927,365	15,316	423,490	1,840	43,189	23,142
OFFICE OF ASST'T SECY FOR HEALTH	14,551	3,967	1,352	-	7,998	-	582	-	-	652
OFFICE OF THE SECRETARY	14,718	1,457	1,442	-	1,006	-	5,767	-	5,046	-
SOCIAL SECURITY ADMINISTRATION	19,775	11,740	4,635	-	525	-	750	-	2,125	-
DEPT OF HOUSING & URBAN DEVELOPMENT	12,426	6,611	323	-	1,156	-	3,713	-	623	-
DEPARTMENT OF THE INTERIOR, TOTAL	318,663	221,000	27,465	58	17,553	1,350	1,670	200	48,867	500
BONNEVILLE POWER ADMINISTRATION	11,465	2,278	5,306	-	863	-	-	-	3,018	-
BUREAU OF LAND MANAGEMENT	2,224	2,024	-	-	200	-	-	-	-	-
BUREAU OF MINES	56,900	37,300	17,000	-	1,400	100	1,000	100	-	-
BUREAU OF RECLAMATION	9,322	6,598	1,160	-	1,420	-	-	-	144	-
GEOLOGICAL SURVEY	149,481	137,827	1,774	-	9,080	800	-	-	-	-
NATIONAL PARK SERVICE	10,806	7,503	900	58	2,200	-	140	-	5	-
OFFICE OF THE SECRETARY	550	50	-	-	-	-	-	-	-	500
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,500	470	790	-	240	-	-	-	-	-
US FISH & WILDLIFE SERVICE	76,415	26,950	535	-	2,150	450	530	100	45,700	-
DEPARTMENT OF JUSTICE, TOTAL	15,329	1,263	3,279	-	4,300	-	5,150	-	1,337	-
DRUG ENFORCEMENT ADMINISTRATION	600	200	400	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,657	457	-	-	500	-	-	-	700	-
IMMIGRATION & NATURALIZATION SVC	200	47	153	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	709	9	500	-	200	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	12,163	550	2,226	-	3,600	-	5,150	-	637	-
DEPARTMENT OF LABOR, TOTAL	9,441	3,616	5,825	-	-	-	-	-	-	-
BUREAU OF LABOR STATISTICS	315	315	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	1,900	1,375	525	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	626	626	-	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	5,700	400	5,300	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	900	900	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,755	940	565	50	100	-	50	50	-	-
DEPARTMENTAL FUNDS	1,755	940	565	50	100	-	50	50	-	-

CONTINUED ON NEXT PAGE

TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	73,335	23,214	36,084	-	7,554	-	4,005	-	2,478	-
COAST GUARD	8,175	4,169	4,006	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	8,000	1,985	6,015	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,200	1,248	1,134	-	1,555	-	1,097	-	166	-
FEDERAL RAILROAD ADMINISTRATION	3,400	2,652	748	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	12,760	700	10,020	-	640	-	1,000	-	400	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	22,600	6,915	11,651	-	1,574	-	1,058	-	1,402	-
OFFICE OF THE SECRETARY	600	330	270	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,100	2,325	200	-	1,575	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	8,500	2,890	2,040	-	2,210	-	850	-	510	-
DEPARTMENT OF THE TREASURY, TOTAL	9,720	7,608	2,112	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,781	1,620	161	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	7,939	5,988	1,951	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,925	1,925	-	-	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	181	31	150	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	159,800	75,071	35,588	-	23,416	-	17,225	-	7,300	1,200
FEDERAL COMMUNICATIONS COMMISSION	654	604	50	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	18,074	4,519	7,230	361	1,084	723	3,434	362	361	-
FEDERAL HOME LOAN BANK BOARD	1,497	1,095	333	-	69	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,300	1,300	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	44,594	6,699	5,494	-	19,454	-	11,351	-	1,426	170
GENERAL SERVICES ADMINISTRATION	1,480	225	250	-	-	-	1,005	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	150	150	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	91,544	4,300	3,944	-	30,955	-	1,650	-	-	50,695
AGENCY FOR INTERNAT'L DEVELOPMENT ..	91,544	4,300	3,944	-	30,955	-	1,650	-	-	50,695
INTERNATIONAL TRADE COMMISSION	3,994	3,994	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	700	700	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,531,732	811,579	456,635	-	158,000	54,113	47,116	600	79	3,610
NATIONAL SCIENCE FOUNDATION	1,025,113	126,380	28,740	1,779	748,224	77,954	39,182	129	1,717	1,008
NUCLEAR REGULATORY COMMISSION	213,525	22,650	13,419	128,927	4,547	28,152	840	13,860	215	915
OFFICE OF PERSONNEL MANAGEMENT	2,223	1,729	70	-	424	-	-	-	-	-
SMITHSONIAN INSTITUTION	51,031	48,931	-	-	-	-	-	-	-	2,100
TENNESSEE VALLEY AUTHORITY	23,400	23,400	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	952	85	250	-	50	145	272	150	-	-
VETERANS ADMINISTRATION	127,600	126,863	-	-	337	-	400	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-17. FEDERAL OBLIGATIONS FOR RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1981	ESTIMATES	
		1982	1983
TOTAL, ALL FIELDS	12,212,780	12,594,982	13,264,864
LIFE SCIENCES, TOTAL	4,435,640	4,593,040	4,735,000
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,996,635	2,070,131	2,124,376
ENVIRONMENTAL BIOLOGY	220,316	224,812	222,376
AGRICULTURAL	494,817	523,713	545,200
MEDICAL	1,609,930	1,656,894	1,727,855
LIFE SCIENCES, NEC	113,942	117,490	115,193
PSYCHOLOGY, TOTAL	208,898	214,763	257,986
BIOLOGICAL ASPECTS	57,511	58,467	67,155
SOCIAL ASPECTS	93,488	96,740	117,721
PSYCHOLOGICAL SCIENCES, NEC	57,899	59,556	73,110
PHYSICAL SCIENCES, TOTAL	2,220,534	2,510,073	2,846,294
ASTRONOMY	281,027	320,665	386,078
CHEMISTRY	486,877	645,100	532,818
PHYSICS	1,345,638	1,396,255	1,762,371
PHYSICAL SCIENCES, NEC	106,992	148,053	165,027
ENVIRONMENTAL SCIENCES, TOTAL	1,121,080	1,092,759	1,097,700
ATMOSPHERIC	373,432	382,195	390,248
GEOLOGICAL	396,082	372,345	369,813
OCEANOGRAPHY	261,684	250,757	252,752
ENVIRONMENTAL SCIENCES, NEC	89,882	87,462	84,887
MATHEMATICS & COMPUTER SCIENCES, TOTAL	278,925	310,581	356,530
MATHEMATICS	117,726	130,862	149,252
COMPUTER SCIENCES	121,520	140,743	164,545
MATHEMATICS & COMPUTER SCIENCES, NEC	39,679	38,976	42,733
ENGINEERING, TOTAL	3,071,454	3,136,878	3,172,285
AERONAUTICAL	709,577	658,501	684,965
ASTRONAUTICAL	303,936	314,519	336,500
CHEMICAL	147,624	149,779	143,837
CIVIL	159,112	163,467	136,148
ELECTRICAL	556,674	570,162	624,376
MECHANICAL	204,646	198,601	228,946
METALLURGY & MATERIALS	255,972	293,821	314,065
ENGINEERING, NEC	733,913	788,028	703,448
SOCIAL SCIENCES, TOTAL	497,427	405,754	397,778
ANTHROPOLOGY	14,537	15,347	14,647
ECONOMICS	206,722	167,845	148,269
POLITICAL SCIENCE	10,767	9,059	8,432
SOCIOLOGY	64,990	50,483	52,331
SOCIAL SCIENCES, NEC	200,411	163,020	174,099
OTHER SCIENCES, NEC	378,822	331,134	401,291

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-18. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	12,212,780	4,435,640	208,898	2,220,534	1,121,080	278,925	3,071,454	497,427	378,822
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	740,984	509,424	-	58,716	15,197	18,702	50,709	88,236	-
AGRICULTURAL COOPERATIVE SERVICE	1,739	-	-	-	-	-	-	1,739	-
AGRICULTURAL RESEARCH SERVICE	367,922	286,321	-	43,930	2,628	2,835	29,980	2,228	-
AGRICULTURAL MARKETING SERVICE	907	907	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	199,383	142,008	-	9,170	1,148	-	6,286	40,771	-
ECONOMIC RESEARCH SERVICE	39,343	-	-	-	-	6,057	-	33,286	-
FOREST SERVICE	119,859	75,857	-	5,616	11,421	2,310	14,443	10,212	-
OFF OF INTERNAT'L COOPERATION & DEV	3,561	3,561	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	770	770	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,500	-	-	-	-	7,500	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,662,980	203,484	303	913,499	186,302	26,207	298,701	8,237	26,247
BUREAU OF THE CENSUS	3,016	-	303	-	-	2,004	-	648	61
ECONOMIC DEVELOPMENT ADMINISTRATION	1,800	-	-	-	-	-	-	1,800	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	1,413,605	147,500	-	870,387	82,648	14,721	270,199	3,950	24,200
NATIONAL BUREAU OF STANDARDS	66,206	-	-	36,985	472	7,399	19,745	1,605	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	168,496	55,831	-	6,127	103,182	943	2,193	220	-
NAT'L TELECOMM & INFORMATION ADMIN	9,857	153	-	-	-	1,140	6,564	14	1,986
DEPARTMENT OF DEFENSE, TOTAL	2,600,900	172,763	71,311	530,076	188,623	147,480	1,324,129	4,726	161,792
DEPARTMENT OF THE ARMY	536,455	94,345	26,721	108,049	21,224	15,160	265,972	914	4,070
DEPARTMENT OF THE NAVY	698,000	24,173	15,384	178,211	78,436	42,945	356,377	2,474	-
DEPARTMENT OF THE AIR FORCE	617,300	41,688	24,226	82,067	43,214	37,082	388,348	-	675
DEFENSE AGENCIES	749,145	12,557	4,980	161,749	45,749	52,293	313,432	1,338	157,047
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,492,241	2,949,142	110,163	78,306	-	9,850	48,791	166,904	129,085
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	237,684	130,095	71,825	654	-	-	84	27,400	7,626
CENTERS FOR DISEASE CONTROL	74,822	74,822	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	71,400	71,400	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	38,623	-	-	-	-	-	-	38,623	-
HEALTH RESOURCES ADMINISTRATION	5,038	-	-	-	-	-	-	-	5,038
HEALTH SERVICES ADMINISTRATION	10,236	9,806	-	-	-	-	-	-	430
HUMAN DEVELOPMENT SERVICES	39,897	13,229	1,763	-	-	-	5,065	19,840	-
NATIONAL INSTITUTES OF HEALTH	2,948,309	2,649,790	36,575	77,652	-	9,409	43,642	15,250	115,991
OFFICE OF ASST'T SECY FOR HEALTH	28,754	-	-	-	-	441	-	28,313	-
OFFICE OF THE SECRETARY	19,500	-	-	-	-	-	-	19,500	-
SOCIAL SECURITY ADMINISTRATION	17,978	-	-	-	-	-	-	17,978	-
DEPT OF HOUSING & URBAN DEVELOPMENT	16,690	-	-	-	-	-	1,829	14,861	-
DEPARTMENT OF THE INTERIOR, TOTAL	369,837	93,416	-	17,354	178,921	7,040	68,505	4,591	10
BONNEVILLE POWER ADMINISTRATION	6,491	2,262	-	-	-	-	4,229	-	-
BUREAU OF LAND MANAGEMENT	1,458	1,248	-	-	135	-	-	75	-
BUREAU OF MINES	68,000	-	-	6,100	10,550	3,900	47,450	-	-
BUREAU OF RECLAMATION	13,387	319	-	-	9,065	-	3,868	135	-
GEOLOGICAL SURVEY	169,277	-	-	8,000	151,927	2,400	6,950	-	-
NATIONAL PARK SERVICE	10,351	6,592	-	241	1,982	3	43	1,480	10
OFFICE OF THE SECRETARY	1,514	-	-	-	1,193	107	-	214	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	5,794	1,200	-	603	989	-	2,215	787	-
OFFICE OF WATER RSCH & TECHNOLOGY	15,790	4,020	-	2,410	3,080	630	3,750	1,900	-
US FISH & WILDLIFE SERVICE	77,775	77,775	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	19,503	-	3,400	-	-	100	370	15,633	-
DRUG ENFORCEMENT ADMINISTRATION	400	-	-	-	-	100	300	-	-
FEDERAL PRISON SYSTEM	1,657	-	350	-	-	-	-	1,307	-
IMMIGRATION & NATURALIZATION SVC	70	-	-	-	-	-	70	-	-
OFFICE OF THE ATTORNEY GENERAL	700	-	-	-	-	-	-	700	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	16,676	-	3,050	-	-	-	-	13,626	-
DEPARTMENT OF LABOR, TOTAL	58,197	-	-	-	-	-	-	58,197	-
BUREAU OF LABOR STATISTICS	251	-	-	-	-	-	-	251	-
EMPLOYMENT STANDARDS ADMINISTRATION	3,200	-	-	-	-	-	-	3,200	-
EMPLOYMENT & TRAINING ADMIN	48,794	-	-	-	-	-	-	48,794	-
LABOR-MANAGEMENT SERVICES ADMIN	1,752	-	-	-	-	-	-	1,752	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	3,000	-	-	-	-	-	-	3,000	-
OFFICE OF THE SECRETARY	1,100	-	-	-	-	-	-	1,100	-
PENSION BENEFIT GUARANTEE CORPORATION	100	-	-	-	-	-	-	100	-
DEPARTMENT OF STATE, TOTAL	1,606	-	-	-	220	-	-	1,386	-
DEPARTMENTAL FUNDS	1,606	-	-	-	220	-	-	1,386	-

CONTINUED ON NEXT PAGE

TABLE C-18. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	88,589	5,174	-	148	398	1,193	57,132	15,096	9,448
COAST GUARD	14,963	-	-	-	260	-	5,383	-	9,320
FEDERAL AVIATION ADMINISTRATION	8,200	-	-	-	-	-	8,200	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,100	-	-	148	138	60	4,626	-	128
FEDERAL RAILROAD ADMINISTRATION	6,200	-	-	-	-	23	6,168	9	-
MARITIME ADMINISTRATION	9,526	-	-	-	-	355	8,771	400	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	29,400	5,174	-	-	-	-	11,848	12,378	-
OFFICE OF THE SECRETARY	700	-	-	-	-	-	300	400	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,200	-	-	-	-	735	2,536	1,909	-
URBAN MASS TRANSPORTATION ADMIN	9,300	-	-	-	-	-	9,300	-	-
DEPARTMENT OF THE TREASURY, TOTAL	5,219	-	-	1,011	-	930	-	2,331	947
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	100	-	-	50	-	-	-	-	50
BUREAU OF ENGRAVING AND PRINTING ...	907	-	-	907	-	-	-	-	-
INTERNAL REVENUE SERVICE	4,158	-	-	-	-	930	-	2,331	897
UNITED STATES CUSTOMS SERVICE	54	-	-	54	-	-	-	-	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,211	-	-	-	-	-	-	2,211	-
APPALACHIAN REGIONAL COMMISSION	280	-	-	-	-	-	-	280	-
COMMUNITY SERVICES ADMINISTRATION	1,927	-	-	-	-	-	-	1,927	-
CONSUMER PRODUCT SAFETY COMMISSION ...	210	60	-	-	-	-	150	-	-
ENVIRONMENTAL PROTECTION AGENCY	218,300	65,596	-	69,328	6,147	-	77,229	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,815	-	-	-	-	-	1,259	484	72
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,088	635	135	3,669	30	436	2,914	704	565
FEDERAL HOME LOAN BANK BOARD	1,036	-	-	-	-	-	-	1,036	-
FEDERAL TRADE COMMISSION	1,100	-	-	-	-	-	-	1,100	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	53,788	-	-	-	-	-	-	44,700	9,088
GENERAL SERVICES ADMINISTRATION	390	-	-	-	-	72	318	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	1,116	-	-	-	-	-	125	991	-
INTERNAT'L DEV COOPERATION AGENCY	86,400	74,869	-	-	51	931	6,947	3,100	502
AGENCY FOR INTERNAT'L DEVELOPMENT ..	86,400	74,869	-	-	51	931	6,947	3,100	502
INTERNATIONAL TRADE COMMISSION	3,397	-	-	-	-	-	-	3,397	-
LIBRARY OF CONGRESS	900	-	-	-	-	-	-	-	900
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,407,158	56,389	1,998	280,145	280,624	3,959	780,708	199	3,136
NATIONAL SCIENCE FOUNDATION	955,464	165,992	11,332	257,038	261,102	61,605	121,024	40,341	37,030
NUCLEAR REGULATORY COMMISSION	219,667	-	-	-	-	-	219,667	-	-
OFFICE OF PERSONNEL MANAGEMENT	3,387	-	3,143	-	-	-	-	244	-
SMITHSONIAN INSTITUTION	44,861	17,500	-	8,144	3,147	-	-	16,070	-
TENNESSEE VALLEY AUTHORITY	14,200	3,500	-	3,100	-	-	7,600	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1,639	-	-	-	318	420	456	445	-
VETERANS ADMINISTRATION	127,700	117,696	7,113	-	-	-	2,891	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-19. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	12,594,982	4,593,040	214,763	2,510,073	1,092,759	310,581	3,136,878	405,754	331,134
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	775,339	540,201	-	63,239	14,012	16,816	50,387	90,684	-
AGRICULTURAL COOPERATIVE SERVICE	1,808	-	-	-	-	-	-	1,808	-
AGRICULTURAL RESEARCH SERVICE	385,755	301,969	-	47,892	2,712	1,399	30,543	1,240	-
AGRICULTURAL MARKETING SERVICE	1,177	1,177	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	221,216	157,312	-	10,244	1,283	-	7,024	45,553	-
ECONOMIC RESEARCH SERVICE	39,360	-	-	-	-	6,058	-	33,302	-
FOREST SERVICE	105,977	67,197	-	5,103	10,017	2,059	12,820	8,781	-
HUMAN NUTRITION INFORMATION SERVICE	8,500	8,200	-	-	-	300	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	3,684	3,684	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	862	862	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,000	-	-	-	-	7,000	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,762,201	198,434	275	984,049	168,425	27,914	354,176	6,934	21,994
BUREAU OF THE CENSUS	2,837	-	275	-	-	1,872	-	630	60
ECONOMIC DEVELOPMENT ADMINISTRATION	1,900	-	-	-	-	-	-	1,900	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	1,542,272	157,650	-	939,527	84,423	14,600	323,272	3,000	19,800
NATIONAL BUREAU OF STANDARDS	71,871	-	-	38,540	720	8,637	23,193	781	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	133,163	40,650	-	5,982	83,282	1,045	1,611	593	-
NAT'L TELECOMM & INFORMATION ADMIN	10,091	134	-	-	-	1,760	6,100	30	2,067
OFFICE OF THE SECRETARY	67	-	-	-	-	-	-	-	67
DEPARTMENT OF DEFENSE, TOTAL	2,883,120	203,119	77,379	687,582	206,646	175,319	1,390,542	4,978	137,555
DEPARTMENT OF THE ARMY	583,523	116,072	29,621	127,428	21,679	15,489	267,841	1,009	4,384
DEPARTMENT OF THE NAVY	770,600	26,027	18,591	220,606	88,326	40,464	374,696	1,890	-
DEPARTMENT OF THE AIR FORCE	592,400	44,541	24,941	84,534	43,872	37,765	355,697	-	1,050
DEFENSE AGENCIES	936,597	16,479	4,226	255,014	52,769	81,601	392,308	2,079	132,121
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,554,195	3,037,445	114,716	81,534	-	10,275	50,272	129,286	130,667
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	250,708	140,351	74,938	1,161	-	-	179	25,689	8,390
CENTERS FOR DISEASE CONTROL	70,529	70,529	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	72,700	72,700	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	29,500	-	-	-	-	-	-	29,500	-
HEALTH RESOURCES ADMINISTRATION	2,488	-	-	-	-	-	-	-	2,488
HEALTH SERVICES ADMINISTRATION	1,920	1,300	-	-	-	-	-	-	620
HUMAN DEVELOPMENT SERVICES	35,095	13,479	1,232	-	-	-	4,949	14,735	-
NATIONAL INSTITUTES OF HEALTH	3,047,100	2,739,086	37,846	80,373	-	9,714	45,144	15,768	119,169
OFFICE OF ASST'T SECY FOR HEALTH	14,188	-	-	-	-	561	-	13,627	-
OFFICE OF THE SECRETARY	13,440	-	-	-	-	-	-	13,440	-
SOCIAL SECURITY ADMINISTRATION	16,527	-	-	-	-	-	-	16,527	-
DEPT OF HOUSING & URBAN DEVELOPMENT	13,001	-	-	-	-	-	367	12,634	-
DEPARTMENT OF THE INTERIOR, TOTAL	349,828	94,044	-	14,077	163,978	6,263	68,997	2,459	10
BONNEVILLE POWER ADMINISTRATION	10,959	4,000	-	-	-	-	6,959	-	-
BUREAU OF LAND MANAGEMENT	1,580	1,280	-	-	300	-	-	-	-
BUREAU OF MINES	69,844	-	-	6,600	11,244	3,400	48,600	-	-
BUREAU OF RECLAMATION	9,991	380	-	-	5,638	-	3,908	65	-
GEOLOGICAL SURVEY	157,292	-	-	6,765	141,685	2,425	6,417	-	-
NATIONAL PARK SERVICE	1,093	6,469	-	62	3,082	3	63	1,404	10
OFFICE OF THE SECRETARY	594	-	-	-	189	135	-	270	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,000	300	-	80	180	80	300	60	-
OFFICE OF WATER RSCH & TECHNOLOGY	7,320	1,460	-	570	1,660	220	2,750	660	-
US FISH & WILDLIFE SERVICE	80,155	80,155	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	19,164	-	2,585	200	-	-	1,176	15,203	-
DRUG ENFORCEMENT ADMINISTRATION	1,000	-	-	200	-	-	800	-	-
FEDERAL PRISON SYSTEM	1,657	-	350	-	-	-	-	1,307	-
IMMIGRATION & NATURALIZATION SVC	376	-	-	-	-	-	376	-	-
OFFICE OF THE ATTORNEY GENERAL	804	-	-	-	-	-	-	804	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	15,327	-	2,235	-	-	-	-	13,092	-
DEPARTMENT OF LABOR, TOTAL	29,251	-	-	-	-	-	-	29,251	-
BUREAU OF LABOR STATISTICS	291	-	-	-	-	-	-	291	-
EMPLOYMENT STANDARDS ADMINISTRATION	2,000	-	-	-	-	-	-	2,000	-
EMPLOYMENT & TRAINING ADMIN	20,359	-	-	-	-	-	-	20,359	-
LABOR-MANAGEMENT SERVICES ADMIN	606	-	-	-	-	-	-	606	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,900	-	-	-	-	-	-	4,900	-
OFFICE OF THE SECRETARY	900	-	-	-	-	-	-	900	-
PENSION BENEFIT GUARANTEE CORPORATION	195	-	-	-	-	-	-	195	-
DEPARTMENT OF STATE, TOTAL	1,999	-	-	-	140	-	-	1,859	-
DEPARTMENTAL FUNDS	1,999	-	-	-	140	-	-	1,859	-

CONTINUED ON NEXT PAGE

TABLE C-19. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	69,134	5,214	-	105	110	1,241	45,720	11,644	5,100
COAST GUARD	10,125	1,328	-	-	-	-	3,707	-	5,090
FEDERAL AVIATION ADMINISTRATION	3,100	-	-	-	-	-	3,100	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,000	-	-	105	110	155	4,620	-	10
FEDERAL RAILROAD ADMINISTRATION	6,100	-	-	-	-	23	6,069	8	-
MARITIME ADMINISTRATION	6,502	-	-	-	-	400	5,902	200	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	22,200	3,886	-	-	-	-	8,953	9,361	-
OFFICE OF THE SECRETARY	600	-	-	-	-	-	200	400	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,500	-	-	-	-	663	2,162	1,675	-
URBAN MASS TRANSPORTATION ADMIN	11,007	-	-	-	-	-	11,007	-	-
DEPARTMENT OF THE TREASURY, TOTAL	6,482	-	-	1,393	-	2,780	-	2,309	-
BUREAU OF ENGRAVING AND PRINTING ...	1,393	-	-	1,393	-	-	-	-	-
INTERNAL REVENUE SERVICE	5,089	-	-	-	-	2,780	-	2,309	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,884	-	-	-	-	-	-	1,884	-
APPALACHIAN REGIONAL COMMISSION	300	-	-	-	-	-	-	300	-
ENVIRONMENTAL PROTECTION AGENCY	216,600	70,712	-	66,828	7,569	-	71,491	-	-
FEDERAL COMMUNICATIONS COMMISSION	953	-	-	-	-	-	524	332	97
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,332	682	158	2,888	79	553	3,473	789	710
FEDERAL HOME LOAN BANK BOARD	1,210	-	-	-	-	-	-	1,210	-
FEDERAL TRADE COMMISSION	1,159	-	-	-	-	-	-	1,159	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	41,488	-	-	-	-	-	-	36,201	5,287
GENERAL SERVICES ADMINISTRATION	553	-	-	-	-	400	153	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	1,216	-	-	-	-	-	499	717	-
INTERNAT'L DEV COOPERATION AGENCY	101,433	88,542	-	-	200	350	9,441	2,900	-
AGENCY FOR INTERNAT'L DEVELOPMENT ..	101,433	88,542	-	-	200	350	9,441	2,900	-
INTERNATIONAL TRADE COMMISSION	3,639	-	-	-	-	-	-	3,639	-
LIBRARY OF CONGRESS	700	-	-	-	-	-	-	-	700
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,384,813	50,366	1,945	325,390	267,841	4,211	731,760	200	3,100
NATIONAL SCIENCE FOUNDATION	959,594	171,099	8,184	271,085	260,297	64,311	127,048	31,656	25,914
NUCLEAR REGULATORY COMMISSION	215,763	-	-	-	-	-	215,763	-	-
OFFICE OF PERSONNEL MANAGEMENT	2,807	-	2,807	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	47,554	18,525	-	8,303	3,354	-	-	17,372	-
TENNESSEE VALLEY AUTHORITY	19,100	3,500	-	3,400	-	-	12,200	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	570	-	-	-	108	148	160	154	-
VETERANS ADMINISTRATION	120,600	111,157	6,714	-	-	-	2,729	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-20. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	13,264,864	4,735,000	257,986	2,846,294	1,097,700	356,530	3,172,285	397,778	401,291
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	808,180	567,573	-	68,023	13,178	17,951	52,011	89,444	-
AGRICULTURAL COOPERATIVE SERVICE	1,436	-	-	-	-	-	-	1,436	-
AGRICULTURAL RESEARCH SERVICE	428,249	335,233	-	53,409	3,007	1,547	33,690	1,363	-
COOPERATIVE STATE RESEARCH SERVICE	223,303	160,599	-	10,021	1,255	-	6,870	44,558	-
ECONOMIC RESEARCH SERVICE	40,584	-	-	-	-	6,261	-	34,323	-
FOREST SERVICE	94,560	59,993	-	4,593	8,916	1,843	11,451	7,764	-
HUMAN NUTRITION INFORMATION SERVICE	7,600	7,300	-	-	-	300	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	3,604	3,604	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	844	844	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	8,000	-	-	-	-	8,000	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,685,220	163,204	297	1,117,386	133,478	28,818	226,246	3,566	12,225
BUREAU OF THE CENSUS	2,993	-	297	-	-	1,986	-	648	62
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	1,499,143	130,524	-	1,071,462	72,095	15,950	197,012	1,700	10,400
NATIONAL BUREAU OF STANDARDS	72,061	-	-	39,647	377	8,470	22,765	802	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	103,140	32,680	-	6,277	61,006	1,096	1,681	400	-
NAT'L TELECOMM & INFORMATION ADMIN	7,883	-	-	-	-	1,316	4,788	16	1,763
DEPARTMENT OF DEFENSE, TOTAL	3,326,061	228,751	105,333	807,695	230,291	213,974	1,526,051	6,497	207,469
DEPARTMENT OF THE ARMY	708,631	135,033	48,643	139,310	23,529	19,089	328,045	1,047	13,935
DEPARTMENT OF THE NAVY	851,300	24,798	21,509	251,237	90,810	47,034	413,545	2,367	-
DEPARTMENT OF THE AIR FORCE	706,200	52,140	32,187	97,845	51,405	45,837	425,635	-	1,151
DEFENSE AGENCIES	1,059,930	16,780	2,994	319,303	64,547	102,014	358,826	3,083	192,383
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,703,265	3,147,010	125,582	85,615	-	10,820	51,277	147,325	135,636
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	286,980	158,509	84,788	2,648	-	100	83	28,966	11,886
CENTERS FOR DISEASE CONTROL	72,019	72,019	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	74,700	74,700	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	30,000	-	-	-	-	-	-	30,000	-
HEALTH SERVICES ADMINISTRATION	1,865	1,300	-	-	-	-	-	-	565
HUMAN DEVELOPMENT SERVICES	42,357	12,321	1,725	-	-	-	4,588	23,723	-
NATIONAL INSTITUTES OF HEALTH	3,146,300	2,828,161	39,069	82,967	-	10,033	46,606	16,279	123,185
OFFICE OF ASST'T SECY FOR HEALTH	14,551	-	-	-	-	687	-	13,864	-
OFFICE OF THE SECRETARY	14,718	-	-	-	-	-	-	14,718	-
SOCIAL SECURITY ADMINISTRATION	19,775	-	-	-	-	-	-	19,775	-
DEPT OF HOUSING & URBAN DEVELOPMENT	12,426	-	-	-	-	-	510	11,916	-
DEPARTMENT OF THE INTERIOR, TOTAL	318,663	90,862	-	13,673	147,262	5,528	59,696	1,632	10
BONNEVILLE POWER ADMINISTRATION	11,465	5,100	-	-	-	-	6,365	-	-
BUREAU OF LAND MANAGEMENT	2,224	1,974	-	-	250	-	-	-	-
BUREAU OF MINES	56,900	-	-	6,600	4,900	2,900	42,500	-	-
BUREAU OF RECLAMATION	9,322	323	-	-	4,473	-	4,440	86	-
GEOLOGICAL SURVEY	149,481	-	-	6,940	134,242	2,440	5,859	-	-
NATIONAL PARK SERVICE	10,806	6,425	-	63	3,022	3	57	1,226	10
OFFICE OF THE SECRETARY	550	-	-	-	175	125	-	250	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,500	625	-	70	200	60	475	70	-
US FISH & WILDLIFE SERVICE	76,415	76,415	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	15,329	-	3,350	200	-	-	600	11,179	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	-	200	-	-	400	-	-
FEDERAL PRISON SYSTEM	1,657	-	350	-	-	-	-	1,307	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	-	200	-	-
OFFICE OF THE ATTORNEY GENERAL	709	-	-	-	-	-	-	709	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	12,163	-	3,000	-	-	-	-	9,163	-
DEPARTMENT OF LABOR, TOTAL	9,441	-	-	-	-	-	-	9,441	-
BUREAU OF LABOR STATISTICS	315	-	-	-	-	-	-	315	-
EMPLOYMENT STANDARDS ADMINISTRATION	1,900	-	-	-	-	-	-	1,900	-
LABOR-MANAGEMENT SERVICES ADMIN	626	-	-	-	-	-	-	626	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	5,700	-	-	-	-	-	-	5,700	-
OFFICE OF THE SECRETARY	900	-	-	-	-	-	-	900	-
DEPARTMENT OF STATE, TOTAL	1,755	-	-	-	140	-	-	1,615	-
DEPARTMENTAL FUNDS	1,755	-	-	-	140	-	-	1,615	-

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TABLE C-20. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	73,335	5,102	-	94	135	1,144	51,845	12,039	2,976
COAST GUARD	8,175	1,146	-	-	-	-	4,089	-	2,940
FEDERAL AVIATION ADMINISTRATION	8,000	-	-	-	-	-	8,000	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,200	-	-	94	135	-	4,935	-	36
FEDERAL RAILROAD ADMINISTRATION	3,400	-	-	-	-	12	3,383	5	-
MARITIME ADMINISTRATION	12,760	-	-	-	-	500	11,800	460	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	22,600	3,956	-	-	-	-	9,117	9,527	-
OFFICE OF THE SECRETARY	600	-	-	-	-	-	150	450	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,100	-	-	-	-	632	1,871	1,597	-
URBAN MASS TRANSPORTATION ADMIN	8,500	-	-	-	-	-	8,500	-	-
DEPARTMENT OF THE TREASURY, TOTAL	9,720	-	-	1,781	-	4,309	-	3,630	-
BUREAU OF ENGRAVING AND PRINTING ...	1,781	-	-	1,781	-	-	-	-	-
INTERNAL REVENUE SERVICE	7,939	-	-	-	-	4,309	-	3,630	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,925	-	-	-	-	-	-	1,925	-
CONSUMER PRODUCT SAFETY COMMISSION ...	181	181	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	159,800	64,792	-	36,884	3,521	-	54,603	-	-
FEDERAL COMMUNICATIONS COMMISSION	654	-	-	-	-	-	429	154	71
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	18,074	1,446	542	4,609	181	904	5,873	2,531	1,988
FEDERAL HOME LOAN BANK BOARD	1,497	-	-	-	-	-	-	1,497	-
FEDERAL TRADE COMMISSION	1,300	-	-	-	-	-	-	1,300	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	44,594	-	-	-	-	-	-	35,547	9,047
GENERAL SERVICES ADMINISTRATION	1,480	-	-	-	-	970	510	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	150	-	-	-	-	-	150	-	-
INTERNAT'L DEV COOPERATION AGENCY	91,544	81,999	-	-	160	530	8,105	750	-
AGENCY FOR INTERNAT'L DEVELOPMENT ..	91,544	81,999	-	-	160	530	8,105	750	-
INTERNATIONAL TRADE COMMISSION	3,994	-	-	-	-	-	-	3,994	-
LIBRARY OF CONGRESS	700	-	-	-	-	-	-	-	700
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,531,732	61,735	2,329	413,407	279,172	5,230	766,559	200	3,100
NATIONAL SCIENCE FOUNDATION	1,025,113	183,484	8,621	284,574	286,422	66,147	135,413	32,383	28,069
NUCLEAR REGULATORY COMMISSION	213,525	-	-	-	-	-	213,525	-	-
OFFICE OF PERSONNEL MANAGEMENT	2,223	-	2,223	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	51,031	19,830	-	8,653	3,595	-	-	18,953	-
TENNESSEE VALLEY AUTHORITY	23,400	4,600	-	3,700	-	-	15,100	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	952	-	-	-	165	205	322	260	-
VETERANS ADMINISTRATION	127,600	114,431	9,709	-	-	-	3,460	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-21. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	208,898	57,511	93,488	57,899	4,435,640	1,996,635	220,316	494,817	1,609,930	113,942
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	509,424	66,055	60,032	371,495	11,842	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	286,321	22,782	11,679	248,316	3,544	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	907	-	-	907	-	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	142,008	15,769	-	117,941	8,298	-
FOREST SERVICE	-	-	-	-	75,857	27,504	48,353	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	3,561	-	-	3,561	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	770	-	-	770	-	-
DEPARTMENT OF COMMERCE, TOTAL	303	-	303	-	203,484	102,079	531	55,300	20,405	25,169
BUREAU OF THE CENSUS	303	-	303	-	-	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	-	-	-	-	147,500	101,926	-	-	20,405	25,169
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	55,831	-	531	55,300	-	-
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	153	153	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	71,311	280	58,778	12,253	172,763	66,526	7,739	248	98,152	98
DEPARTMENT OF THE ARMY	26,721	102	24,414	2,205	94,345	5,050	2,304	248	86,702	41
DEPARTMENT OF THE NAVY	15,384	-	6,255	9,129	24,173	12,589	2,141	-	9,443	-
DEPARTMENT OF THE AIR FORCE	24,226	-	24,226	-	41,688	37,683	3,294	-	711	-
DEFENSE AGENCIES	4,980	178	3,883	919	12,557	11,204	-	-	1,296	57
DEPT OF HLTH & HUMAN SERVICES, TOTAL	110,163	41,986	23,417	44,760	2,949,142	1,539,070	118	-	1,324,290	85,664
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	71,825	41,986	23,417	6,422	130,095	82,400	118	-	37,896	9,681
CENTERS FOR DISEASE CONTROL	-	-	-	-	74,822	-	-	-	74,822	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	71,400	62,832	-	-	8,568	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	9,806	-	-	-	9,806	-
HUMAN DEVELOPMENT SERVICES	1,763	-	-	1,763	13,229	-	-	-	11,706	1,523
NATIONAL INSTITUTES OF HEALTH	36,575	-	-	36,575	2,649,790	1,393,838	-	-	1,181,492	74,460
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	93,416	59,305	28,221	5,890	-	-
BONNEVILLE POWER ADMINISTRATION	-	-	-	-	2,262	-	-	2,262	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,248	120	200	928	-	-
BUREAU OF RECLAMATION	-	-	-	-	319	319	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	6,592	1,758	4,834	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	1,200	-	760	440	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	4,020	140	1,620	2,260	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	77,775	56,968	20,807	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	3,400	500	2,900	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	350	-	350	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	3,050	500	2,550	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	5,174	5,174	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	5,174	5,174	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	60	60	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	65,596	-	62,557	-	3,039	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	135	-	135	-	635	234	229	-	172	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	74,869	2,075	740	46,663	25,391	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	74,869	2,075	740	46,663	25,391	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,998	128	1,044	826	56,389	12,831	1,697	15,214	23,943	2,704
NATIONAL SCIENCE FOUNDATION	11,332	7,517	3,755	60	165,992	119,162	46,516	7	-	307
OFFICE OF PERSONNEL MANAGEMENT	3,143	-	3,143	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	17,500	6,464	11,036	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	3,500	2,600	900	-	-	-
VETERANS ADMINISTRATION	7,113	7,100	13	-	117,696	15,000	-	-	102,696	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-22. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	214,763	58,467	96,740	59,556	4,593,040	2,070,131	224,812	523,713	1,656,894	117,490
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	540,201	62,309	54,273	410,501	13,118	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	301,969	19,950	12,212	265,961	3,846	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,177	-	-	1,177	-	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	157,112	17,223	-	130,617	9,272	-
FOREST SERVICE	-	-	-	-	67,197	25,136	42,061	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	-	8,200	-	-	8,200	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	3,684	-	-	3,684	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	862	-	-	862	-	-
DEPARTMENT OF COMMERCE, TOTAL	275	-	275	-	198,434	110,102	1,052	39,494	21,476	26,310
BUREAU OF THE CENSUS	275	-	275	-	-	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	-	-	-	-	157,650	109,968	-	-	21,372	26,310
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	40,650	-	1,052	39,494	104	-
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	134	134	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	77,379	155	64,625	12,599	203,119	77,134	8,074	238	117,568	105
DEPARTMENT OF THE ARMY	29,621	155	27,981	1,485	116,072	8,427	2,504	238	104,863	40
DEPARTMENT OF THE NAVY	18,591	-	7,815	10,776	26,027	13,782	1,974	-	10,271	-
DEPARTMENT OF THE AIR FORCE	24,941	-	24,941	-	44,541	40,209	3,596	-	736	-
DEFENSE AGENCIES	4,226	-	3,888	338	16,479	14,716	-	-	1,698	65
DEPT OF HLTH & HUMAN SERVICES, TOTAL	114,716	44,475	23,909	46,332	3,037,445	1,597,007	137	-	1,353,294	87,007
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	74,938	44,475	23,909	6,554	140,351	90,772	137	-	40,975	8,467
CENTERS FOR DISEASE CONTROL	-	-	-	-	70,529	-	-	-	70,529	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	72,700	63,976	-	-	8,724	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	1,300	-	-	-	1,300	-
HUMAN DEVELOPMENT SERVICES	1,932	-	-	1,932	13,479	-	-	-	12,007	1,472
NATIONAL INSTITUTES OF HEALTH	37,846	-	-	37,846	2,739,086	1,442,259	-	-	1,219,759	77,068
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	94,044	58,438	29,806	5,800	-	-
BONNEVILLE POWER ADMINISTRATION	-	-	-	-	4,000	-	-	4,000	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,280	140	200	940	-	-
BUREAU OF RECLAMATION	-	-	-	-	380	380	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	6,469	2,267	4,202	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	300	-	-	300	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	1,460	160	740	560	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	80,155	55,491	24,664	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,585	450	2,135	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	350	-	350	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	2,235	450	1,785	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	5,214	3,886	-	-	-	1,328
COAST GUARD	-	-	-	-	1,328	-	-	-	-	1,328
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,886	3,886	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	70,712	-	68,480	-	2,232	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	158	-	158	-	682	129	316	-	237	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	88,542	2,385	264	56,133	29,760	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	88,542	2,385	264	56,133	29,760	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,945	125	1,195	625	50,366	12,389	1,589	11,547	22,211	2,630
NATIONAL SCIENCE FOUNDATION	8,184	6,560	1,624	-	171,099	122,418	48,571	-	-	110
OFFICE OF PERSONNEL MANAGEMENT	2,807	-	2,807	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	18,525	7,175	11,350	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	3,500	2,600	900	-	-	-
VETERANS ADMINISTRATION	6,714	6,702	12	-	111,157	14,159	-	-	96,998	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-23. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	297,986	67,155	117,721	73,110	4,735,000	2,124,376	222,376	545,200	1,727,855	115,193
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	567,573	62,048	50,858	441,345	13,322	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	335,233	22,357	13,526	295,097	4,253	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	160,599	17,030	-	134,500	9,069	-
FOREST SERVICE	-	-	-	-	59,993	22,661	37,332	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	-	7,300	-	-	7,300	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	3,604	-	-	3,604	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	844	-	-	844	-	-
DEPARTMENT OF COMMERCE, TOTAL	297	-	297	-	163,204	89,033	639	32,041	21,107	20,384
BUREAU OF THE CENSUS	297	-	297	-	-	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	-	-	-	-	130,524	89,033	-	-	21,107	20,384
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	32,680	-	639	32,041	-	-
DEPARTMENT OF DEFENSE, TOTAL	105,333	281	81,202	23,850	228,751	85,459	9,760	249	133,169	114
DEPARTMENT OF THE ARMY	48,643	155	37,372	11,116	135,033	10,744	2,684	249	121,315	41
DEPARTMENT OF THE NAVY	21,509	-	9,031	12,478	24,798	13,211	2,304	-	9,283	-
DEPARTMENT OF THE AIR FORCE	32,187	-	32,187	-	52,140	46,538	4,772	-	830	-
DEFENSE AGENCIES	2,994	126	2,612	256	16,780	14,966	-	-	1,741	73
DEPT OF HLTH & HUMAN SERVICES, TOTAL	125,582	49,161	27,786	48,635	3,147,010	1,657,344	190	-	1,398,153	91,323
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	84,788	49,161	27,786	7,841	158,509	102,725	190	-	45,195	10,399
CENTERS FOR DISEASE CONTROL	-	-	-	-	72,019	-	-	-	72,019	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	74,700	65,736	-	-	8,964	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	1,300	-	-	-	1,300	-
HUMAN DEVELOPMENT SERVICES	1,725	-	-	1,725	12,321	-	-	-	10,952	1,369
NATIONAL INSTITUTES OF HEALTH	39,069	-	-	39,069	2,828,161	1,488,883	-	-	1,259,723	79,555
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	90,862	53,142	30,279	7,441	-	-
BONNEVILLE POWER ADMINISTRATION	-	-	-	-	5,100	-	-	5,100	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,974	34	84	1,856	-	-
BUREAU OF RECLAMATION	-	-	-	-	323	323	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	6,425	2,036	4,389	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	625	70	70	485	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	76,415	50,679	25,736	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	3,350	1,000	2,350	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	350	-	350	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	3,000	1,000	2,000	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	5,102	3,956	-	-	-	1,146
COAST GUARD	-	-	-	-	1,146	-	-	-	-	1,146
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,956	3,956	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	181	181	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	64,792	-	62,291	-	2,501	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	542	-	542	-	1,446	-	904	-	542	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	81,999	2,235	264	51,745	27,755	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	81,999	2,235	264	51,745	27,755	-
NATIONAL AERONAUTICS & SPACE ADMIN	2,329	125	1,579	625	61,735	17,017	1,364	12,379	28,875	2,100
NATIONAL SCIENCE FOUNDATION	8,621	6,890	1,731	-	183,484	130,676	52,682	-	-	126
OFFICE OF PERSONNEL MANAGEMENT	2,223	-	2,223	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	19,830	8,085	11,745	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	4,600	3,200	1,400	-	-	-
VETERANS ADMINISTRATION	9,709	9,698	11	-	114,431	12,000	-	-	102,431	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-24. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,220,534	281,027	486,877	1,345,638	106,992	1,121,080	373,432	396,082	261,684	89,882
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	58,716	-	54,485	4,231	-	15,197	5,159	10,038	-	-
AGRICULTURAL RESEARCH SERVICE	43,930	-	41,082	2,848	-	2,628	1,946	682	-	-
COOPERATIVE STATE RESEARCH SERVICE	9,170	-	9,170	-	-	1,148	1,148	-	-	-
FOREST SERVICE	5,616	-	4,233	1,383	-	11,421	2,065	9,356	-	-
DEPARTMENT OF COMMERCE, TOTAL	913,499	473	95,509	797,731	19,786	186,302	67,558	39,828	69,191	9,725
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	870,387	-	83,706	766,895	19,786	82,648	25,044	37,955	10,001	9,648
NATIONAL BUREAU OF STANDARDS	36,985	473	10,389	26,123	-	472	240	232	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	6,127	-	1,414	4,713	-	103,182	42,274	1,641	59,190	77
DEPARTMENT OF DEFENSE, TOTAL	530,076	14,590	90,693	348,822	75,971	188,623	83,814	34,323	58,332	12,154
DEPARTMENT OF THE ARMY	108,049	-	39,074	41,485	27,490	21,224	12,652	7,635	436	501
DEPARTMENT OF THE NAVY	178,211	9,782	23,971	128,912	15,546	78,436	11,303	5,283	53,897	7,953
DEPARTMENT OF THE AIR FORCE	82,067	4,808	27,197	47,609	2,453	43,214	36,066	6,356	-	792
DEFENSE AGENCIES	161,749	-	451	130,816	30,482	45,749	23,793	15,049	3,999	2,908
DEPT OF HLTH & HUMAN SERVICES, TOTAL	78,306	-	70,070	8,236	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	654	-	654	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	77,652	-	69,416	8,236	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	17,354	-	12,040	2,407	2,907	178,921	10,195	148,880	12,820	7,026
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	135	-	-	-	135
BUREAU OF MINES	6,100	-	3,900	-	2,200	10,550	-	5,750	-	4,800
BUREAU OF RECLAMATION	-	-	-	-	-	9,065	8,920	-	145	-
GEOLOGICAL SURVEY	8,000	-	6,000	2,000	-	151,927	-	139,942	11,985	-
NATIONAL PARK SERVICE	241	-	-	137	104	1,982	1,215	75	290	402
OFFICE OF THE SECRETARY	-	-	-	-	-	1,193	-	-	-	1,193
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	603	-	-	-	603	989	-	493	-	496
OFFICE OF WATER RSCH & TECHNOLOGY	2,410	-	2,140	270	-	3,080	60	2,620	400	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	220	-	-	128	92
DEPARTMENTAL FUNDS	-	-	-	-	-	220	-	-	128	92
DEPARTMENT OF TRANSPORTATION, TOTAL	148	-	148	-	-	398	61	77	-	260
COAST GUARD	-	-	-	-	-	260	-	-	-	260
FEDERAL HIGHWAY ADMINISTRATION	148	-	148	-	-	138	61	77	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,011	-	225	206	580	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	907	-	200	127	580	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	54	-	-	54	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	69,328	-	69,328	-	-	6,147	1,362	3,874	911	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,669	-	1,195	2,474	-	30	30	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	-	51	-	-	-	51
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	-	51	-	-	-	51
NATIONAL AERONAUTICS & SPACE ADMIN	280,145	198,674	7,696	67,078	6,697	280,624	118,435	87,023	23,030	52,136
NATIONAL SCIENCE FOUNDATION	257,038	59,146	82,388	114,453	1,051	261,102	86,688	69,651	96,325	8,438
SMITHSONIAN INSTITUTION	8,144	8,144	-	-	-	3,147	100	2,134	913	-
TENNESSEE VALLEY AUTHORITY	3,100	-	3,100	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	318	30	254	34	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-25. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,510,073	320,665	645,100	1,396,255	148,053	1,092,759	382,195	372,345	250,757	87,462
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	63,239	-	59,599	3,640	-	14,012	5,113	8,899	-	-
AGRICULTURAL RESEARCH SERVICE	47,892	-	45,511	2,381	-	2,712	1,974	738	-	-
COOPERATIVE STATE RESEARCH SERVICE	10,244	-	10,244	-	-	1,283	1,283	-	-	-
FOREST SERVICE	5,103	-	3,844	1,259	-	10,017	1,856	8,161	-	-
DEPARTMENT OF COMMERCE, TOTAL	984,049	921	228,985	737,460	16,683	168,425	71,505	38,662	49,153	9,105
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	939,527	390	216,221	706,233	16,683	84,423	28,204	36,778	10,456	8,985
NATIONAL BUREAU OF STANDARDS	38,540	531	11,886	26,123	-	720	233	367	-	120
NAT'L OCEANIC & ATMOSPHERIC ADMIN	5,982	-	878	5,104	-	83,282	43,068	1,517	38,697	-
DEPARTMENT OF DEFENSE, TOTAL	687,582	17,042	110,916	436,814	122,810	206,646	87,906	36,851	67,734	14,155
DEPARTMENT OF THE ARMY	127,428	-	54,313	42,646	30,469	21,679	12,064	7,144	418	2,053
DEPARTMENT OF THE NAVY	220,606	11,662	29,170	163,794	15,980	88,326	11,738	5,523	61,581	9,484
DEPARTMENT OF THE AIR FORCE	84,534	5,380	27,158	49,375	2,621	43,872	36,756	7,116	-	-
DEFENSE AGENCIES	255,014	-	275	180,999	73,740	52,769	27,348	17,068	5,735	2,618
DEPT OF HLTH & HUMAN SERVICES, TOTAL	81,534	-	73,016	8,518	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,161	-	1,161	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	80,373	-	71,855	8,518	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	14,077	-	10,330	1,885	1,862	163,978	7,537	138,639	12,207	5,595
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	300	-	-	-	300
BUREAU OF MINES	6,600	-	4,800	-	1,800	11,244	-	6,900	-	4,344
BUREAU OF RECLAMATION	-	-	-	-	-	5,638	5,526	-	112	-
GEOLOGICAL SURVEY	6,765	-	5,040	1,725	-	141,685	-	130,070	11,615	-
NATIONAL PARK SERVICE	62	-	-	-	62	3,082	1,951	69	300	762
OFFICE OF THE SECRETARY	-	-	-	-	-	189	-	-	-	189
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	80	-	80	-	-	180	-	180	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	570	-	410	160	-	1,660	60	1,420	180	-
DEPARTMENT OF JUSTICE, TOTAL	200	-	-	-	200	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	-	200	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	140	-	-	100	40
DEPARTMENTAL FUNDS	-	-	-	-	-	140	-	-	100	40
DEPARTMENT OF TRANSPORTATION, TOTAL	105	-	105	-	-	110	30	80	-	-
FEDERAL HIGHWAY ADMINISTRATION	105	-	105	-	-	110	30	80	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,393	-	306	195	892	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,393	-	306	195	892	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	66,828	-	66,828	-	-	7,569	2,297	3,302	1,970	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,888	-	726	2,162	-	79	79	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	-	200	-	-	-	200
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	-	200	-	-	-	200
NATIONAL AERONAUTICS & SPACE ADMIN	325,390	230,802	4,466	84,997	5,125	267,841	119,117	73,481	21,506	53,737
NATIONAL SCIENCE FOUNDATION	271,085	63,597	86,423	120,584	481	210,297	88,503	70,004	97,160	4,630
SMITHSONIAN INSTITUTION	8,303	8,303	-	-	-	3,354	97	2,341	916	-
TENNESSEE VALLEY AUTHORITY	3,400	-	3,400	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	108	11	86	11	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-26. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,846,294	386,078	532,818	1,762,371	165,027	1,097,700	390,248	369,813	252,752	84,887
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	68,023	-	64,250	3,773	-	13,178	5,112	8,066	-	-
AGRICULTURAL RESEARCH SERVICE	53,409	-	50,770	2,639	-	3,007	2,192	815	-	-
COOPERATIVE STATE RESEARCH SERVICE	10,021	-	10,021	-	-	1,255	1,255	-	-	-
FOREST SERVICE	4,593	-	3,459	1,134	-	8,916	1,665	7,251	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,117,386	948	115,699	993,766	6,973	133,478	60,762	38,429	29,215	5,072
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	1,071,462	390	102,678	961,421	6,973	72,095	22,983	36,011	8,029	5,072
NATIONAL BUREAU OF STANDARDS	39,647	558	12,141	26,948	-	377	-	377	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	6,277	-	880	5,397	-	61,006	37,779	2,041	21,186	-
DEPARTMENT OF DEFENSE, TOTAL	807,695	16,946	128,030	513,477	149,242	230,291	91,769	41,922	77,993	18,607
DEPARTMENT OF THE ARMY	139,310	-	58,451	52,126	28,733	23,529	13,134	8,734	437	1,224
DEPARTMENT OF THE NAVY	251,237	11,029	35,363	186,750	18,095	90,810	11,670	6,151	61,016	11,973
DEPARTMENT OF THE AIR FORCE	97,845	5,917	33,916	55,140	2,872	51,405	43,076	8,329	-	-
DEFENSE AGENCIES	319,303	-	300	219,461	99,542	64,547	23,889	18,708	16,540	5,410
DEPT OF HLTH & HUMAN SERVICES, TOTAL	85,615	-	76,821	8,794	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	2,648	-	2,648	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	82,967	-	74,173	8,794	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	13,673	-	10,070	1,740	1,863	147,262	6,471	126,083	12,178	2,530
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	250	-	-	-	250
BUREAU OF MINES	6,600	-	4,800	-	1,800	4,900	-	3,600	-	1,300
BUREAU OF RECLAMATION	-	-	-	-	-	4,473	4,323	-	150	-
GEOLOGICAL SURVEY	6,940	-	5,200	1,740	-	134,242	-	122,214	12,028	-
NATIONAL PARK SERVICE	63	-	-	-	63	3,022	2,148	69	-	805
OFFICE OF THE SECRETARY	-	-	-	-	-	175	-	-	-	175
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	70	-	70	-	-	200	-	200	-	-
DEPARTMENT OF JUSTICE, TOTAL	200	-	-	-	200	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	-	200	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	140	-	-	-	140
DEPARTMENTAL FUNDS	-	-	-	-	-	140	-	-	-	140
DEPARTMENT OF TRANSPORTATION, TOTAL	94	-	94	-	-	135	78	57	-	-
FEDERAL HIGHWAY ADMINISTRATION	94	-	94	-	-	135	78	57	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,781	-	392	249	1,140	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,781	-	392	249	1,140	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	36,884	-	36,884	-	-	3,521	873	2,273	375	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	4,609	-	90	4,519	-	181	181	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	-	160	-	-	-	160
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	-	160	-	-	-	160
NATIONAL AERONAUTICS & SPACE ADMIN	413,407	291,980	5,900	110,402	5,125	279,172	124,212	73,934	24,028	56,998
NATIONAL SCIENCE FOUNDATION	284,574	67,551	90,888	125,651	484	286,422	100,666	76,332	108,044	1,380
SMITHSONIAN INSTITUTION	8,653	8,653	-	-	-	3,595	104	2,592	899	-
TENNESSEE VALLEY AUTHORITY	3,700	-	3,700	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	165	20	125	20	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-27. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	3,071,454	709,577	303,936	147,624	159,112	556,674	204,646	255,972	733,913
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	50,709	-	-	5,278	4,694	242	3,906	-	36,589
AGRICULTURAL RESEARCH SERVICE	29,980	-	-	2,717	2,073	242	986	-	23,962
COOPERATIVE STATE RESEARCH SERVICE	6,286	-	-	-	-	-	-	-	6,286
FOREST SERVICE	14,443	-	-	2,561	2,621	-	2,920	-	6,341
DEPARTMENT OF COMMERCE, TOTAL	298,701	-	-	31,656	24,316	24,687	19,077	57,833	141,132
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	270,199	-	-	30,633	20,696	13,737	16,981	52,044	136,108
NATIONAL BUREAU OF STANDARDS	19,745	-	-	1,023	2,977	2,973	2,096	5,652	5,024
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,193	-	-	-	643	1,413	-	137	-
NAT'L TELECOMM & INFORMATION ADMIN	6,564	-	-	-	-	6,564	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,324,129	232,560	69,216	31,089	34,909	477,428	136,560	131,600	210,767
DEPARTMENT OF THE ARMY	265,972	33,036	1,921	18,293	23,585	107,405	40,624	25,097	16,011
DEPARTMENT OF THE NAVY	356,377	37,663	-	9,938	3,036	71,631	55,562	43,436	135,111
DEPARTMENT OF THE AIR FORCE	388,348	114,033	46,659	2,646	3,472	162,330	19,174	31,835	8,199
DEFENSE AGENCIES	313,432	47,828	20,636	212	4,816	136,062	21,200	31,232	51,446
DEPT OF HLTH & HUMAN SERVICES, TOTAL	48,791	-	-	-	-	-	-	-	48,791
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	84	-	-	-	-	-	-	-	84
HUMAN DEVELOPMENT SERVICES	5,065	-	-	-	-	-	-	-	5,065
NATIONAL INSTITUTES OF HEALTH	43,642	-	-	-	-	-	-	-	43,642
DEPT OF HOUSING & URBAN DEVELOPMENT	1,829	-	-	-	-	-	-	-	1,829
DEPARTMENT OF THE INTERIOR, TOTAL	68,505	-	-	3,445	20,599	5,324	5,146	31,405	2,586
BONNEVILLE POWER ADMINISTRATION	4,229	-	-	-	-	4,229	-	-	-
BUREAU OF MINES	47,450	-	-	3,400	7,600	500	4,100	31,350	500
BUREAU OF RECLAMATION	3,868	-	-	45	2,642	295	96	-	790
GEOLOGICAL SURVEY	6,950	-	-	-	5,700	300	950	-	-
NATIONAL PARK SERVICE	43	-	-	-	-	-	-	-	43
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	2,215	-	-	-	907	-	-	55	1,253
OFFICE OF WATER RSCH & TECHNOLOGY	3,750	-	-	-	3,750	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	370	-	-	-	-	370	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	300	-	-	-	-	300	-	-	-
IMMIGRATION & NATURALIZATION SVC	70	-	-	-	-	70	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	57,132	1,230	574	531	21,238	6,036	20,807	1,184	5,532
COAST GUARD	5,383	-	-	-	-	2,893	-	-	2,490
FEDERAL AVIATION ADMINISTRATION	8,200	1,230	574	-	5,330	1,066	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,626	-	-	-	3,596	153	714	163	-
FEDERAL RAILROAD ADMINISTRATION	6,168	-	-	-	2,283	493	1,850	-	1,542
MARITIME ADMINISTRATION	8,771	-	-	-	-	900	5,350	1,021	1,500
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	11,848	-	-	-	-	-	11,848	-	-
OFFICE OF THE SECRETARY	300	-	-	-	300	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,536	-	-	531	429	531	1,045	-	-
URBAN MASS TRANSPORTATION ADMIN	9,300	-	-	-	9,300	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	150	-	-	-	-	150	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	77,229	-	-	55,788	21,441	-	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,259	-	-	-	-	1,259	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,914	-	-	155	867	128	240	-	924
GENERAL SERVICES ADMINISTRATION	318	-	-	246	40	-	-	-	32
INTERNATIONAL COMMUNICATION AGENCY	125	-	-	-	-	125	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	6,947	-	-	-	2,753	1,000	-	-	3,194
AGENCY FOR INTERNAT'L DEVELOPMENT	6,947	-	-	-	2,753	1,000	-	-	3,194
NATIONAL AERONAUTICS & SPACE ADMIN	780,708	475,787	233,863	265	112	4,256	4,034	9,734	52,657
NATIONAL SCIENCE FOUNDATION	121,024	-	153	19,148	28,143	27,986	14,276	24,216	7,102
NUCLEAR REGULATORY COMMISSION	219,667	-	-	-	-	-	-	-	219,667
TENNESSEE VALLEY AUTHORITY	7,600	-	-	-	-	7,600	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	456	-	130	23	-	83	-	-	220
VETERANS ADMINISTRATION	2,891	-	-	-	-	-	-	-	2,891

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-28. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	3,136,878	658,501	314,519	149,779	163,467	570,162	198,601	293,821	788,028
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	50,387	-	-	5,325	4,217	318	3,636	-	36,891
AGRICULTURAL RESEARCH SERVICE	30,543	-	-	2,973	1,957	318	1,062	-	24,233
COOPERATIVE STATE RESEARCH SERVICE	7,024	-	-	-	-	-	-	-	7,024
FOREST SERVICE	12,820	-	-	2,352	2,260	-	2,574	-	5,634
DEPARTMENT OF COMMERCE, TOTAL	354,176	-	-	28,623	35,753	30,572	9,410	70,900	178,918
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	323,272	-	-	27,400	30,870	20,490	7,724	63,416	173,372
NATIONAL BUREAU OF STANDARDS	23,193	-	-	1,223	4,193	3,061	1,686	7,484	5,546
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,611	-	-	-	690	921	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	6,100	-	-	-	-	6,100	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,390,542	222,770	72,029	34,788	35,311	477,520	145,692	151,179	247,253
DEPARTMENT OF THE ARMY	267,841	32,566	2,790	19,432	24,044	104,317	44,567	24,252	15,873
DEPARTMENT OF THE NAVY	374,696	34,157	-	12,484	3,587	93,559	57,051	50,080	123,778
DEPARTMENT OF THE AIR FORCE	355,697	116,325	45,609	2,680	3,852	126,989	18,933	33,159	8,150
DEFENSE AGENCIES	392,308	39,722	23,630	192	7,828	152,655	25,141	43,688	99,452
DEPT OF HLTH & HUMAN SERVICES, TOTAL	50,272	-	-	-	-	-	-	-	50,272
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	179	-	-	-	-	-	-	-	179
HUMAN DEVELOPMENT SERVICES	4,949	-	-	-	-	-	-	-	4,949
NATIONAL INSTITUTES OF HEALTH	45,144	-	-	-	-	-	-	-	45,144
DEPT OF HOUSING & URBAN DEVELOPMENT	367	-	-	-	-	-	-	-	367
DEPARTMENT OF THE INTERIOR, TOTAL	68,997	-	-	5,435	14,912	8,039	4,453	35,050	1,108
BONNEVILLE POWER ADMINISTRATION	6,959	-	-	-	-	6,959	-	-	-
BUREAU OF MINES	48,600	-	-	5,400	3,900	500	3,400	34,900	500
BUREAU OF RECLAMATION	3,908	-	-	35	2,927	300	101	-	545
GEOLOGICAL SURVEY	6,417	-	-	-	5,185	280	952	-	-
NATIONAL PARK SERVICE	63	-	-	-	-	-	-	-	63
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	300	-	-	-	150	-	-	150	-
OFFICE OF WATER RSCH & TECHNOLOGY	2,750	-	-	-	2,750	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,176	-	-	-	-	1,176	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	800	-	-	-	-	800	-	-	-
IMMIGRATION & NATURALIZATION SVC	376	-	-	-	-	376	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	45,720	465	217	466	19,595	4,445	15,357	945	4,230
COAST GUARD	3,707	-	-	-	-	1,992	-	-	1,715
FEDERAL AVIATION ADMINISTRATION	3,100	465	217	-	2,015	403	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,620	-	-	-	3,745	200	530	145	-
FEDERAL RAILROAD ADMINISTRATION	6,069	-	-	-	2,252	484	1,818	-	1,515
MARITIME ADMINISTRATION	5,902	-	-	-	-	900	3,202	800	1,000
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	8,953	-	-	-	-	-	8,953	-	-
OFFICE OF THE SECRETARY	200	-	-	-	200	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,162	-	-	466	376	466	854	-	-
URBAN MASS TRANSPORTATION ADMIN	11,007	-	-	-	11,007	-	-	-	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	71,491	-	-	54,923	16,568	-	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	524	-	-	-	-	524	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,473	-	-	158	1,026	158	1,026	-	1,105
GENERAL SERVICES ADMINISTRATION	153	-	-	-	103	-	-	-	50
INTERNATIONAL COMMUNICATION AGENCY	499	-	-	-	-	499	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	9,441	-	-	-	1,605	1,000	-	-	6,836
AGENCY FOR INTERNAT'L DEVELOPMENT	9,441	-	-	-	1,605	1,000	-	-	6,836
NATIONAL AERONAUTICS & SPACE ADMIN	731,760	435,266	242,074	300	125	4,300	4,100	10,431	35,164
NATIONAL SCIENCE FOUNDATION	127,048	-	153	19,751	30,252	29,379	14,927	25,316	7,270
NUCLEAR REGULATORY COMMISSION	215,763	-	-	-	-	-	-	-	215,763
TENNESSEE VALLEY AUTHORITY	12,200	-	-	-	-	12,200	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	160	-	46	10	-	32	-	-	72
VETERANS ADMINISTRATION	2,729	-	-	-	-	-	-	-	2,729

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-29. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	3,172,285	684,965	336,500	137,637	136,148	624,376	228,946	314,065	703,448
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	52,011	-	-	5,414	4,155	352	3,463	-	38,627
AGRICULTURAL RESEARCH SERVICE	33,690	-	-	3,291	2,155	352	1,170	-	26,722
COOPERATIVE STATE RESEARCH SERVICE	6,870	-	-	-	-	-	-	-	6,870
FOREST SERVICE	11,451	-	-	2,123	2,000	-	2,293	-	5,035
DEPARTMENT OF COMMERCE, TOTAL	226,246	-	-	19,256	17,374	16,099	14,493	70,112	88,912
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	197,012	-	-	19,000	10,850	7,201	12,534	64,501	82,926
NATIONAL BUREAU OF STANDARDS	22,765	-	-	256	5,808	3,145	1,959	5,611	5,986
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,681	-	-	-	716	965	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	4,788	-	-	-	-	4,788	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,526,051	227,408	76,677	44,692	42,033	542,924	172,545	172,937	246,835
DEPARTMENT OF THE ARMY	328,045	45,823	3,389	24,242	26,541	140,760	49,790	27,853	9,647
DEPARTMENT OF THE NAVY	413,545	37,272	-	13,471	3,585	96,437	62,631	51,179	148,970
DEPARTMENT OF THE AIR FORCE	425,635	132,441	57,762	3,490	4,232	150,772	24,503	42,094	10,341
DEFENSE AGENCIES	358,826	11,872	15,526	3,489	7,675	154,955	35,621	51,811	77,877
DEPT OF HLTH & HUMAN SERVICES, TOTAL	51,277	-	-	-	-	-	-	-	51,277
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	83	-	-	-	-	-	-	-	83
HUMAN DEVELOPMENT SERVICES	4,588	-	-	-	-	-	-	-	4,588
NATIONAL INSTITUTES OF HEALTH	46,606	-	-	-	-	-	-	-	46,606
DEPT OF HOUSING & URBAN DEVELOPMENT	510	-	-	-	-	-	-	-	510
DEPARTMENT OF THE INTERIOR, TOTAL	59,696	-	-	5,755	10,072	7,315	3,422	31,875	1,257
BONNEVILLE POWER ADMINISTRATION	6,365	-	-	-	-	6,365	-	-	-
BUREAU OF MINES	42,500	-	-	5,700	1,900	400	2,500	31,600	400
BUREAU OF RECLAMATION	4,440	-	-	55	3,212	300	73	-	800
GEOLOGICAL SURVEY	5,859	-	-	-	4,760	250	849	-	-
NATIONAL PARK SERVICE	57	-	-	-	-	-	-	-	57
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	475	-	-	-	200	-	-	275	-
DEPARTMENT OF JUSTICE, TOTAL	600	-	-	-	-	600	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	400	-	-	-	-	400	-	-	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	200	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	51,845	1,200	560	445	19,633	3,841	15,633	1,203	9,330
COAST GUARD	4,089	-	-	-	-	1,604	-	-	2,485
FEDERAL AVIATION ADMINISTRATION	8,000	1,200	560	-	5,200	1,040	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,935	-	-	-	4,170	182	380	203	-
FEDERAL RAILROAD ADMINISTRATION	3,383	-	-	-	1,254	270	1,014	-	845
MARITIME ADMINISTRATION	11,800	-	-	-	-	300	4,500	1,000	6,000
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,117	-	-	-	-	-	9,117	-	-
OFFICE OF THE SECRETARY	150	-	-	-	150	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	1,871	-	-	445	359	445	622	-	-
URBAN MASS TRANSPORTATION ADMIN	8,500	-	-	-	8,500	-	-	-	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	54,603	-	-	45,742	8,861	-	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	429	-	-	-	-	429	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	5,873	-	-	-	2,711	90	723	-	2,349
GENERAL SERVICES ADMINISTRATION	510	-	-	-	235	-	-	-	275
INTERNATIONAL COMMUNICATION AGENCY	150	-	-	-	-	150	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	8,105	-	-	-	1,800	600	-	-	5,705
AGENCY FOR INTERNAT'L DEVELOPMENT	8,105	-	-	-	1,800	600	-	-	5,705
NATIONAL AERONAUTICS & SPACE ADMIN	766,559	456,357	259,005	300	125	4,300	1,800	11,564	33,108
NATIONAL SCIENCE FOUNDATION	135,413	-	164	22,213	29,149	32,518	16,867	26,374	8,128
NUCLEAR REGULATORY COMMISSION	213,525	-	-	-	-	-	-	-	213,525
TENNESSEE VALLEY AUTHORITY	15,100	-	-	-	-	15,100	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	322	-	94	20	-	58	-	-	150
VETERANS ADMINISTRATION	3,460	-	-	-	-	-	-	-	3,460

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-30. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	278,925	117,726	121,520	39,679	497,427	14,537	206,722	10,767	64,990	200,411
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	18,702	18,702	-	-	88,236	61	81,078	714	5,638	745
AGRICULTURAL COOPERATIVE SERVICE	-	-	-	-	1,739	-	1,739	-	-	-
AGRICULTURAL RESEARCH SERVICE	2,835	2,835	-	-	2,228	61	1,572	-	68	527
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	40,771	-	38,613	-	2,158	-
ECONOMIC RESEARCH SERVICE	6,057	6,057	-	-	33,286	-	31,807	632	629	218
FOREST SERVICE	2,310	2,310	-	-	10,212	-	7,347	82	2,783	-
STATISTICAL REPORTING SERVICE	7,500	7,500	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	26,207	14,720	6,214	5,273	8,237	-	3,878	116	293	3,950
BUREAU OF THE CENSUS	2,004	1,732	272	-	648	-	355	-	293	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,800	-	1 800	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	14,721	8,173	3,048	3,500	3,950	-	-	-	-	3,950
NATIONAL BUREAU OF STANDARDS	7,399	4,344	1,282	1,773	1,605	-	1,605	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	943	471	472	-	220	-	118	102	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,140	-	1,140	-	14	-	-	14	-	-
DEPARTMENT OF DEFENSE, TOTAL	147,480	36,241	80,823	30,416	4,726	-	143	788	3,095	700
DEPARTMENT OF THE ARMY	15,160	7,137	7,833	190	914	-	143	-	621	150
DEPARTMENT OF THE NAVY	42,945	9,497	26,849	6,599	2,474	-	-	-	2,474	-
DEPARTMENT OF THE AIR FORCE	37,082	11,910	22,528	2,644	-	-	-	-	-	-
DEFENSE AGENCIES	52,293	7,697	23,613	20,983	1,338	-	-	788	-	550
DEPT OF HLTH & HUMAN SERVICES, TOTAL	9,850	9,850	-	-	166,904	663	16,143	1,662	37,776	110,660
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	-	-	-	-	27,400	663	169	971	20,745	4,852
HEALTH CARE FINANCING ADMIN	-	-	-	-	38,623	-	-	-	-	38,623
HUMAN DEVELOPMENT SERVICES	-	-	-	-	19,840	-	-	-	-	19,840
NATIONAL INSTITUTES OF HEALTH	9,409	9,409	-	-	15,250	-	-	-	-	15,250
OFFICE OF ASST'T SECY FOR HEALTH	441	441	-	-	28,313	-	2,324	691	11,181	14,117
OFFICE OF THE SECRETARY	-	-	-	-	19,500	-	13,650	-	5,850	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	17,978	-	-	-	-	17,978
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	14,861	-	14,740	-	-	121
DEPARTMENT OF THE INTERIOR, TOTAL	7,040	4,200	2,210	630	4,591	1,056	713	-	108	2,714
BUREAU OF LAND MANAGEMENT	-	-	-	-	75	-	-	-	-	75
BUREAU OF MINES	3,900	3,900	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	135	-	39	-	96	-
GEOLOGICAL SURVEY	2,400	300	2,100	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	3	-	3	-	1,480	1,056	-	-	-	424
OFFICE OF THE SECRETARY	107	-	107	-	214	-	214	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	787	-	-	-	12	775
OFFICE OF WATER RSCH & TECHNOLOGY	630	-	-	630	1,900	-	460	-	-	1,440
DEPARTMENT OF JUSTICE, TOTAL	100	-	100	-	15,633	-	1,100	1,000	6,038	7,495
DRUG ENFORCEMENT ADMINISTRATION	100	-	100	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	1,307	-	400	-	250	657
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	700	-	-	-	-	700
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	13,626	-	700	1,000	5,788	6,138
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	58,197	-	58,197	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	251	-	251	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	3,200	-	3,200	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	48,794	-	48,794	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	1,752	-	1,752	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	3,000	-	3,000	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,100	-	1,100	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	-	-	-	-	100	-	100	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,386	-	146	-	-	1,240
DEPARTMENTAL FUNDS	-	-	-	-	1,386	-	146	-	-	1,240

CONTINUED ON NEXT PAGE

TABLE C-30. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,193	-	1,193	-	15,096	-	9,288	-	5,808	-
FEDERAL HIGHWAY ADMINISTRATION	60	-	60	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	23	-	23	-	9	-	9	-	-	-
MARITIME ADMINISTRATION	355	-	355	-	400	-	400	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	12,378	-	7,315	-	5,063	-
OFFICE OF THE SECRETARY	-	-	-	-	400	-	400	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	755	-	755	-	1,909	-	1,164	-	745	-
DEPARTMENT OF THE TREASURY, TOTAL	930	258	672	-	2,331	-	2,288	-	43	-
INTERNAL REVENUE SERVICE	930	258	672	-	2,331	-	2,288	-	43	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	2,211	-	1,106	1,105	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	280	-	280	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,927	-	-	-	1,927	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	484	-	349	46	-	89
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	436	383	53	-	704	-	263	205	236	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,036	-	1,036	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,100	-	-	1,100	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	-	-	-	-	44,700	-	-	-	-	44,700
GENERAL SERVICES ADMINISTRATION	72	-	72	-	-	-	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	-	-	-	-	991	-	-	-	-	991
INTERNAT'L DEV COOPERATION AGENCY	931	-	931	-	3,100	-	-	-	-	3,100
AGENCY FOR INTERNAT'L DEVELOPMENT ..	931	-	931	-	3,100	-	-	-	-	3,100
INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,397	-	3,397	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	3,959	1,818	1,283	858	199	-	-	-	-	199
NATIONAL SCIENCE FOUNDATION	61,605	31,554	27,736	2,315	40,341	6,313	12,334	3,385	4,028	14,081
OFFICE OF PERSONNEL MANAGEMENT	-	-	-	-	244	-	-	244	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	16,070	6,444	-	-	-	9,626
US ARMS CONTROL & DISARMAMENT AGENCY .	420	-	233	187	445	-	43	402	-	-

1/ THE 1982 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-31. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	310,581	130,862	140,743	38,976	405,754	15,347	167,845	9,059	50,483	163,020
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	16,816	16,816	-	-	90,684	-	83,811	246	6,004	623
AGRICULTURAL COOPERATIVE SERVICE	-	-	-	-	1,808	-	1,808	-	-	-
AGRICULTURAL RESEARCH SERVICE	1,399	1,399	-	-	1,240	-	820	-	15	405
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	45,553	-	43,142	-	2,411	-
ECONOMIC RESEARCH SERVICE	6,058	6,058	-	-	33,302	-	31,821	178	1,085	218
FOREST SERVICE	2,059	2,059	-	-	8,781	-	6,220	68	2,493	-
HUMAN NUTRITION INFORMATION SERVICE	300	300	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,000	7,000	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	27,914	14,988	8,249	4,677	6,934	-	3,410	108	286	3,130
BUREAU OF THE CENSUS	1,872	1,607	265	-	630	-	344	-	286	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,900	-	1,900	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	14,600	8,225	3,375	3,000	3,000	-	-	-	-	3,000
NATIONAL BUREAU OF STANDARDS	8,637	4,696	2,264	2,677	781	-	781	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,045	460	585	-	593	-	385	78	-	130
NAT'L TELECOMM & INFORMATION ADMIN	1,760	-	1,760	-	30	-	-	30	-	-
DEPARTMENT OF DEFENSE, TOTAL	175,319	46,026	96,087	33,206	4,978	-	137	2,079	2,599	163
DEPARTMENT OF THE ARMY	15,489	7,631	7,725	133	1,009	-	137	-	709	163
DEPARTMENT OF THE NAVY	40,464	11,941	20,445	8,078	1,890	-	-	-	1,890	-
DEPARTMENT OF THE AIR FORCE	37,765	14,993	19,774	2,998	-	-	-	-	-	-
DEFENSE AGENCIES	81,601	11,461	48,143	21,997	2,079	-	-	2,079	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	10,275	10,275	-	-	129,286	650	10,670	1,251	29,027	87,688
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	-	-	-	-	25,689	650	143	918	19,614	4,364
HEALTH CARE FINANCING ADMIN	-	-	-	-	29,500	-	-	-	-	29,500
HUMAN DEVELOPMENT SERVICES	-	-	-	-	14,735	-	-	-	-	14,735
NATIONAL INSTITUTES OF HEALTH	9,714	9,714	-	-	15,768	-	-	-	-	15,768
OFFICE OF ASST'T SECY FOR HEALTH	561	561	-	-	13,627	-	1,119	333	5,381	6,794
OFFICE OF THE SECRETARY	-	-	-	-	13,440	-	9,408	-	4,032	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	16,527	-	-	-	-	16,527
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	12,634	-	12,570	-	-	64
DEPARTMENT OF THE INTERIOR, TOTAL	6,263	3,652	2,391	220	2,459	883	555	-	90	931
BUREAU OF MINES	3,400	3,400	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	65	-	25	-	40	-
GEOLOGICAL SURVEY	425	252	2,173	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	3	-	3	-	1,404	883	-	-	50	471
OFFICE OF THE SECRETARY	135	-	135	-	270	-	270	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	80	-	80	-	60	-	60	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	220	-	-	220	660	-	200	-	-	460
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	15,203	-	1,000	1,600	4,423	8,180
FEDERAL PRISON SYSTEM	-	-	-	-	1,307	-	400	-	250	657
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	804	-	-	-	-	804
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	13,092	-	600	1,600	4,173	6,719
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	29,251	-	29,251	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	291	-	291	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	2,000	-	2,000	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	20,359	-	20,359	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	606	-	606	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	4,900	-	4,900	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	900	-	900	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	-	-	-	-	195	-	195	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,859	-	300	-	-	1,559
DEPARTMENTAL FUNDS	-	-	-	-	1,859	-	300	-	-	1,559

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TABLE C-31. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,241	-	1,241	-	11,644	-	7,159	-	4,485	-
FEDERAL HIGHWAY ADMINISTRATION	155	-	155	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	23	-	23	-	8	-	8	-	-	-
MARITIME ADMINISTRATION	400	-	400	-	200	-	200	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	9,361	-	5,530	-	3,831	-
OFFICE OF THE SECRETARY	-	-	-	-	400	-	400	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	663	-	663	-	1,675	-	1,021	-	654	-
DEPARTMENT OF THE TREASURY, TOTAL	2,780	2,131	649	-	2,309	-	2,309	-	-	-
INTERNAL REVENUE SERVICE	2,780	2,131	649	-	2,309	-	2,309	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,884	-	942	942	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	300	-	300	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	332	-	223	-	-	109
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	553	474	79	-	789	-	237	236	316	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,210	-	1,210	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,159	-	1,159	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	-	-	-	-	36,201	-	-	-	-	36,201
GENERAL SERVICES ADMINISTRATION	400	-	400	-	-	-	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	-	-	-	-	717	-	-	-	-	717
INTERNAT'L DEV COOPERATION AGENCY	350	-	350	-	2,900	-	-	-	-	2,900
AGENCY FOR INTERNAT'L DEVELOPMENT ..	350	-	350	-	2,900	-	-	-	-	2,900
INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,639	-	3,639	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	4,211	2,101	1,300	810	200	-	-	-	-	200
NATIONAL SCIENCE FOUNDATION	64,311	34,399	29,912	-	31,656	5,845	8,948	2,458	3,253	11,152
SMITHSONIAN INSTITUTION	-	-	-	-	17,372	7,969	-	-	-	9,403
US ARMS CONTROL & DISARMAMENT AGENCY .	148	-	85	63	154	-	15	139	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-32. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	356,530	149,252	164,545	42,733	397,778	14,647	148,269	8,433	52,331	174,099
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	17,951	17,951	-	-	89,444	-	82,820	242	5,715	667
AGRICULTURAL COOPERATIVE SERVICE	-	-	-	-	1,436	-	1,436	-	-	-
AGRICULTURAL RESEARCH SERVICE	1,547	1,547	-	-	1,363	-	905	-	16	442
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	44,558	-	42,200	-	2,358	-
ECONOMIC RESEARCH SERVICE	6,261	6,261	-	-	34,323	-	32,807	183	1,108	225
FOREST SERVICE	1,843	1,843	-	-	7,764	-	5,472	59	2,233	-
HUMAN NUTRITION INFORMATION SERVICE	300	300	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	8,000	8,000	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	28,818	16,566	8,429	3,823	3,566	-	1,389	183	294	1,700
BUREAU OF THE CENSUS	1,986	1,713	273	-	648	-	354	-	294	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	15,950	9,500	4,350	2,100	1,700	-	-	-	-	1,700
NATIONAL BUREAU OF STANDARDS	8,470	4,915	1,832	1,723	802	-	802	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,096	438	658	-	400	-	233	167	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,316	-	1,316	-	16	-	-	16	-	-
DEPARTMENT OF DEFENSE, TOTAL	213,974	56,545	119,374	38,055	6,497	-	144	1,413	3,270	1,670
DEPARTMENT OF THE ARMY	19,089	9,779	9,095	215	1,047	-	144	-	903	-
DEPARTMENT OF THE NAVY	47,034	14,271	23,594	9,169	2,367	-	-	-	2,367	-
DEPARTMENT OF THE AIR FORCE	45,837	19,256	23,173	3,408	-	-	-	-	-	-
DEFENSE AGENCIES	102,014	13,239	63,512	25,263	3,083	-	-	1,413	-	1,670
DEPT OF HLTH & HUMAN SERVICES, TOTAL	10,820	10,720	100	-	147,325	696	11,591	1,301	31,232	102,505
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	100	-	100	-	28,966	696	150	963	21,342	5,815
HEALTH CARE FINANCING ADMIN	-	-	-	-	30,000	-	-	-	-	30,000
HUMAN DEVELOPMENT SERVICES	-	-	-	-	23,723	-	-	-	-	23,723
NATIONAL INSTITUTES OF HEALTH	10,033	10,033	-	-	16,279	-	-	-	-	16,279
OFFICE OF ASST'T SECY FOR HEALTH	687	687	-	-	13,864	-	1,138	338	5,475	6,913
OFFICE OF THE SECRETARY	-	-	-	-	14,718	-	10,303	-	4,415	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	19,775	-	-	-	-	19,775
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	11,916	-	11,606	-	-	310
DEPARTMENT OF THE INTERIOR, TOTAL	5,528	3,160	2,368	-	1,632	716	340	-	368	208
BUREAU OF MINES	2,900	2,900	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	86	-	20	-	66	-
GEOLOGICAL SURVEY	2,440	260	2,180	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	3	-	3	-	1,226	716	-	-	302	208
OFFICE OF THE SECRETARY	125	-	125	-	250	-	250	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	60	-	60	-	70	-	70	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	11,179	-	1,150	900	2,350	6,779
FEDERAL PRISON SYSTEM	-	-	-	-	1,307	-	400	-	250	657
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	709	-	-	-	-	709
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	9,163	-	750	900	2,100	5,413
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	9,441	-	9,441	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	315	-	315	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	1,900	-	1,900	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	626	-	626	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	5,700	-	5,700	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	900	-	900	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,615	-	300	-	-	1,315
DEPARTMENTAL FUNDS	-	-	-	-	1,615	-	300	-	-	1,315

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TABLE C-32. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE-MATICS	COMPUTER SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES NEC	TOTAL	ANTHRO-POLOGY	ECONOM-ICS	POLITI-CAL SCIENCE	SOCI-OLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,144	-	1,144	-	12,039	-	7,519	-	4,520	-
FEDERAL RAILROAD ADMINISTRATION	12	-	12	-	5	-	5	-	-	-
MARITIME ADMINISTRATION	500	-	500	-	460	-	460	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	9,527	-	5,630	-	3,897	-
OFFICE OF THE SECRETARY	-	-	-	-	450	-	450	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	632	-	632	-	1,597	-	974	-	623	-
DEPARTMENT OF THE TREASURY, TOTAL	4,309	3,298	1,011	-	3,630	-	3,630	-	-	-
INTERNAL REVENUE SERVICE	4,309	3,298	1,011	-	3,630	-	3,630	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,925	-	963	962	-	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	154	-	146	-	-	8
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	904	723	181	-	2,531	-	904	723	904	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,497	-	1,497	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,300	-	1,300	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	-	-	-	-	35,547	-	-	-	-	35,547
GENERAL SERVICES ADMINISTRATION	970	-	970	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	530	-	530	-	750	-	-	-	400	350
AGENCY FOR INTERNAT'L DEVELOPMENT ..	530	-	530	-	750	-	-	-	400	350
INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,994	-	3,994	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	5,230	3,120	1,300	810	200	-	-	-	-	200
NATIONAL SCIENCE FOUNDATION	66,147	37,169	28,978	-	32,383	5,950	9,505	2,478	3,278	11,172
SMITHSONIAN INSTITUTION	-	-	-	-	18,953	7,285	-	-	-	11,668
US ARMS CONTROL & DISARMAMENT AGENCY .	205	-	160	45	60	-	30	230	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-33. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	5,041,295	1,301,827	292,916	73,278	2,503,223	490,565	313,140	8,638	26,530	31,178
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	314,128	202,175	4,184	-	102,901	-	1,163	-	1,687	2,018
AGRICULTURAL RESEARCH SERVICE	186,436	163,337	4,179	-	16,234	-	824	-	1,283	579
COOPERATIVE STATE RESEARCH SERVICE	83,852	2,943	-	-	80,660	-	-	-	249	-
ECONOMIC RESEARCH SERVICE	3,584	3,416	-	-	168	-	-	-	-	-
FOREST SERVICE	38,091	31,649	5	-	5,839	-	339	-	155	104
OFF OF INTERNAT'L COOPERATION & DEV	1,703	368	-	-	-	-	-	-	-	1,335
OFFICE OF TRANSPORTATION	462	462	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	602,544	20,134	7,350	62,221	134,664	369,293	2,371	5,907	45	559
BUREAU OF THE CENSUS	438	273	-	-	165	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	200	2	-	-	100	-	98	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 2/	586,340	5,591	7,214	62,221	133,656	369,293	2,273	5,907	45	140
NATIONAL BUREAU OF STANDARDS	15,566	14,268	136	-	743	-	-	-	-	419
DEPARTMENT OF DEFENSE, TOTAL	604,285	226,036	76,543	281	244,405	29,943	16,835	1,247	64	8,931
DEPARTMENT OF THE ARMY	148,089	89,951	15,523	-	36,923	365	3,179	-	64	2,084
DEPARTMENT OF THE NAVY	238,000	92,047	16,756	87	119,083	858	5,208	220	-	3,741
DEPARTMENT OF THE AIR FORCE	125,800	33,709	20,306	-	63,351	-	5,434	600	-	2,400
DEFENSE AGENCIES	92,396	10,329	23,958	194	25,048	28,720	3,014	427	-	706
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,900,384	392,956	18,276	9,112	1,205,602	8,585	231,733	814	22,185	11,121
ALCOHOL DRUG ABUSE & MENTAL HLTH ADMIN	116,309	49,365	233	-	49,205	-	14,169	-	2,217	1,120
HEALTH SERVICES ADMINISTRATION	3,800	3,800	-	-	-	-	-	-	270	-
HUMAN DEVELOPMENT SERVICES	446	46	-	-	130	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,766,788	335,181	16,448	9,112	1,150,213	8,585	216,899	814	19,698	9,838
OFFICE OF ASST'T SECY FOF HEALTH	12,441	4,534	1,595	-	5,484	-	665	-	-	163
OFFICE OF THE SECRETARY	600	30	-	-	570	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	80,663	69,190	1,357	-	9,325	-	-	-	200	591
BONNEVILLE POWER ADMINISTRATION	420	1	419	-	-	-	-	-	-	-
BUREAU OF MINES	13,600	13,600	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	118	66	-	-	52	-	-	-	-	-
GEOLOGICAL SURVEY	53,493	50,240	-	-	3,253	-	-	-	-	-
OFFICE OF THE SECRETARY	1,514	615	308	-	-	-	-	-	-	591
OFFICE OF WATER RSCH & TECHNOLOGY	7,630	1,050	610	-	5,970	-	-	-	-	-
US FISH & WILDLIFE SERVICE	3,888	3,618	20	-	50	-	-	-	200	-
DEPARTMENT OF JUSTICE, TOTAL	4,631	353	-	-	1,037	-	2,997	-	150	94
OFF OF JUSTICE ASSIST, RSCH, & STAT	4,631	353	-	-	1,037	-	2,997	-	150	94
DEPARTMENT OF LABOR, TOTAL	3,740	1,750	-	-	1,218	-	772	-	-	-
EMPLOYMENT & TRAINING ADMIN	3,740	1,750	-	-	1,218	-	772	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	1,210	610	600	-	-	-	-	-	-	-
COAST GUARD	260	260	-	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	650	50	600	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	300	300	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,344	1,581	763	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,344	1,581	763	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	60	10	50	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	10,500	5,560	2,783	-	2,157	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,639	1,267	-	-	1,267	-	105	-	-	-
FEDERAL TRADE COMMISSION	935	935	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	20,576	3,072	700	-	8,250	-	7,718	-	800	36
INTERNATIONAL COMMUNICATION AGENCY	104	8	-	-	-	-	96	-	-	-
LIBRARY OF CONGRESS	200	200	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	531,122	216,411	160,722	-	124,418	11,775	14,770	562	12	2,452
NATIONAL SCIENCE FOUNDATION	896,569	98,620	19,588	1,664	667,979	70,969	34,580	108	1,387	1,674
SMITHSONIAN INSTITUTION	44,861	41,159	-	-	-	-	-	-	-	3,702
TENNESSEE VALLEY AUTHORITY	4,800	4,800	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	15,000	15,000	-	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-34. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	5,310,848	1,396,174	316,567	80,467	2,618,003	514,245	315,749	8,176	28,366	33,101
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	332,071	211,976	4,751	-	111,292	-	710	-	1,004	2,338
AGRICULTURAL RESEARCH SERVICE	196,147	171,848	4,746	-	17,731	-	371	-	580	871
COOPERATIVE STATE RESEARCH SERVICE	91,927	3,175	-	-	88,483	-	-	-	269	-
ECONOMIC RESEARCH SERVICE	3,598	3,564	-	-	34	-	-	-	-	-
FOREST SERVICE	38,120	32,473	5	-	5,044	-	339	-	155	104
OFF OF INTERNAT'L COOPERATION & DEV	1,762	399	-	-	-	-	-	-	-	1,363
OFFICE OF TRANSPORTATION	517	517	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	664,262	23,392	9,628	69,605	141,674	411,800	2,387	5,707	45	24
BUREAU OF THE CENSUS	331	251	-	-	80	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	300	2	150	-	-	-	148	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 2/	646,750	7,737	9,042	69,605	140,551	411,800	2,239	5,707	45	24
NATIONAL BUREAU OF STANDARDS	16,881	15,402	436	-	1,043	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	674,243	242,593	97,448	-	291,485	5,487	24,645	942	89	11,554
DEPARTMENT OF THE ARMY	167,145	96,421	16,390	-	46,278	402	5,225	-	89	2,340
DEPARTMENT OF THE NAVY	280,000	96,778	31,426	-	135,913	696	8,910	125	-	6,152
DEPARTMENT OF THE AIR FORCE	140,400	37,621	22,163	-	72,439	-	5,177	600	-	2,400
DEFENSE AGENCIES	86,698	11,773	27,469	-	36,855	4,389	5,333	217	-	662
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,970,658	410,906	17,567	9,197	1,253,752	8,939	233,480	846	24,421	11,550
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	124,354	62,819	203	-	48,865	-	9,718	-	1,912	837
HEALTH SERVICES ADMINISTRATION	700	700	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,839,400	345,620	16,755	9,197	1,201,602	8,939	223,500	846	22,509	10,432
OFFICE OF ASST'T SECY FOR HEALTH	5,804	1,747	609	-	2,905	-	262	-	-	281
OFFICE OF THE SECRETARY	400	20	-	-	380	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	74,163	66,602	979	-	5,812	-	-	-	230	540
BONNEVILLE POWER ADMINISTRATION	500	1	499	-	-	-	-	-	-	-
BUREAU OF MINES	12,900	12,900	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	206	206	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	52,625	49,313	-	-	3,312	-	-	-	-	-
OFFICE OF THE SECRETARY	594	54	-	-	-	-	-	-	-	540
OFFICE OF WATER RSCH & TECHNOLOGY	3,330	480	450	-	2,400	-	-	-	-	-
US FISH & WILDLIFE SERVICE	4,008	3,648	30	-	100	-	-	-	230	-
DEPARTMENT OF JUSTICE, TOTAL	4,442	233	33	-	1,100	-	2,726	-	350	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	4,442	233	33	-	1,100	-	2,726	-	350	-
DEPARTMENT OF LABOR, TOTAL	3,642	2,300	-	-	1,100	-	242	-	-	-
EMPLOYMENT & TRAINING ADMIN	3,642	2,300	-	-	1,100	-	242	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	900	250	186	-	464	-	-	-	-	-
MARITIME ADMINISTRATION	700	50	186	-	464	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,023	1,672	351	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	2,023	1,672	351	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	14,700	6,806	4,278	-	3,616	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,438	690	-	-	690	-	58	-	-	-
FEDERAL TRADE COMMISSION	985	985	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	15,316	2,716	450	-	6,550	-	4,950	-	650	-
INTERNATIONAL COMMUNICATION AGENCY	75	5	-	-	-	-	70	-	-	-
LIBRARY OF CONGRESS	100	100	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	575,282	256,558	158,138	-	125,000	16,580	15,956	562	12	2,476
NATIONAL SCIENCE FOUNDATION	910,794	105,837	22,758	1,665	675,468	71,439	30,525	119	1,565	1,418
SMITHSONIAN INSTITUTION	47,554	44,353	-	-	-	-	-	-	-	3,201
TENNESSEE VALLEY AUTHORITY	5,200	5,200	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	13,000	13,000	-	-	-	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-35. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	5,765,190	1,541,576	383,529	87,788	2,758,870	590,752	329,894	9,389	32,345	31,047
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	359,123	232,745	6,175	-	116,202	-	685	-	993	2,323
AGRICULTURAL RESEARCH SERVICE	221,559	193,246	6,170	-	20,275	-	371	-	580	917
COOPERATIVE STATE RESEARCH SERVICE	96,435	3,079	-	-	93,086	-	-	-	270	-
ECONOMIC RESEARCH SERVICE	3,624	3,591	-	-	33	-	-	-	-	-
FOREST SERVICE	35,275	31,909	5	-	2,808	-	314	-	143	96
OFF OF INTERNAT'L COOPERATION & DEV	1,724	414	-	-	-	-	-	-	-	1,310
OFFICE OF TRANSPORTATION	506	506	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	756,456	30,138	5,378	73,525	162,532	477,400	1,596	5,816	47	24
BUREAU OF THE CENSUS	414	259	-	-	155	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 2/	738,694	13,410	5,242	73,525	161,634	477,400	1,596	5,816	47	24
NATIONAL BUREAU OF STANDARDS	17,348	16,469	136	-	743	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	782,135	295,361	105,451	-	332,006	7,296	30,557	1,910	90	9,464
DEPARTMENT OF THE ARMY	203,594	103,045	24,194	-	65,879	275	7,378	-	90	2,733
DEPARTMENT OF THE NAVY	305,000	127,003	22,838	-	142,502	788	7,730	1,110	-	3,029
DEPARTMENT OF THE AIR FORCE	164,200	43,998	26,306	-	82,060	-	8,236	800	-	2,800
DEFENSE AGENCIES	109,341	21,315	32,113	-	41,565	6,233	7,213	-	-	902
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,042,332	429,403	19,803	12,484	1,287,469	10,218	240,225	972	28,436	13,322
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	135,424	71,478	183	-	51,474	-	9,311	-	2,116	862
HEALTH SERVICES ADMINISTRATION	700	700	-	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	3,146	46	-	-	600	-	500	-	2,000	-
NATIONAL INSTITUTES OF HEALTH	1,896,700	355,585	19,070	12,484	1,231,855	10,218	230,177	972	24,320	12,019
OFFICE OF ASST'T SECY FOR HEALTH	6,062	1,579	550	-	3,255	-	237	-	-	441
OFFICE OF THE SECRETARY	300	15	-	-	285	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	67,649	62,805	634	-	3,460	-	-	-	250	500
BONNEVILLE POWER ADMINISTRATION	600	1	599	-	-	-	-	-	-	-
BUREAU OF MINES	12,500	12,500	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	160	160	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	50,010	46,708	-	-	3,310	-	-	-	-	-
OFFICE OF THE SECRETARY	550	50	-	-	-	-	-	-	-	500
US FISH & WILDLIFE SERVICE	3,821	3,386	35	-	150	-	-	-	250	-
DEPARTMENT OF JUSTICE, TOTAL	3,801	200	301	-	1,000	-	2,150	-	150	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	3,801	200	301	-	1,000	-	2,150	-	150	-
DEPARTMENT OF TRANSPORTATION, TOTAL	700	200	-	-	500	-	-	-	-	-
MARITIME ADMINISTRATION	700	200	-	-	500	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	3,114	2,013	1,101	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,114	2,013	1,101	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	9,800	4,871	3,388	-	1,541	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,105	1,105	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	15,466	2,716	450	-	6,650	-	5,000	-	650	-
LIBRARY OF CONGRESS	100	100	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	677,223	291,318	222,060	-	125,000	18,004	17,791	562	12	2,476
NATIONAL SCIENCE FOUNDATION	975,555	120,070	18,788	1,779	722,510	77,834	31,890	129	1,717	838
SMITHSONIAN INSTITUTION	51,031	48,931	-	-	-	-	-	-	-	2,100
TENNESSEE VALLEY AUTHORITY	5,700	5,700	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	13,900	13,900	-	-	-	-	-	-	-	-

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SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-36. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1981	ESTIMATES	
		1982	1983
TOTAL, ALL FIELDS	5,041,295	5,310,848	5,765,190
LIFE SCIENCES, TOTAL	2,223,848	2,329,982	2,428,309
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,201,686	1,254,868	1,296,539
ENVIRONMENTAL BIOLOGY	83,299	87,126	91,372
AGRICULTURAL	177,387	190,724	212,651
MEDICAL	706,205	739,991	768,843
LIFE SCIENCES, NEC	55,271	57,273	58,904
PSYCHOLOGY, TOTAL	90,992	92,248	99,963
BIOLOGICAL ASPECTS	30,545	30,991	32,702
SOCIAL ASPECTS	30,211	31,456	35,664
PSYCHOLOGICAL SCIENCES, NEC	30,236	29,801	31,597
PHYSICAL SCIENCES, TOTAL	1,324,940	1,432,036	1,650,350
ASTRONOMY	274,227	313,550	379,073
CHEMISTRY	298,188	322,575	348,721
PHYSICS	735,417	778,228	905,191
PHYSICAL SCIENCES, NEC	17,108	17,683	17,365
ENVIRONMENTAL SCIENCES, TOTAL	532,833	523,715	559,365
ATMOSPHERIC	173,829	173,177	188,879
GEOLOGICAL	194,205	180,881	182,217
OCEANOGRAPHY	143,294	151,381	173,309
ENVIRONMENTAL SCIENCES, NEC	21,505	18,276	14,960
MATHEMATICS & COMPUTER SCIENCES, TOTAL	140,360	164,938	185,538
MATHEMATICS	79,174	91,135	100,709
COMPUTER SCIENCES	52,205	65,229	73,033
MATHEMATICS & COMPUTER SCIENCES, NEC	8,981	8,574	11,796
ENGINEERING, TOTAL	526,018	587,872	655,347
AERONAUTICAL	113,284	119,189	136,023
ASTRONAUTICAL	33,179	45,107	48,132
CHEMICAL	31,330	35,478	40,369
CIVIL	23,362	26,142	22,625
ELECTRICAL	78,508	86,910	103,833
MECHANICAL	47,378	52,563	63,266
METALLURGY & MATERIALS	138,480	156,690	175,226
ENGINEERING, NEC	60,497	65,793	65,873
SOCIAL SCIENCES, TOTAL	136,951	121,470	124,323
ANTHROPOLOGY	13,078	14,070	13,516
ECONOMICS	34,112	33,368	29,653
POLITICAL SCIENCE	6,286	4,966	4,649
SOCIOLOGY	22,593	18,290	18,956
SOCIAL SCIENCES, NEC	60,882	50,776	57,549
OTHER SCIENCES, NEC	65,353	58,587	61,995

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-37. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	5,041,295	2,223,848	90,992	1,324,940	532,833	140,360	526,018	136,951	65,353
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	314,128	235,268	-	33,692	4,776	2,623	16,548	21,221	-
AGRICULTURAL RESEARCH SERVICE	186,436	145,645	-	27,709	1,189	1,785	9,346	762	-
COOPERATIVE STATE RESEARCH SERVICE	83,852	62,623	-	3,393	425	-	2,326	15,085	-
ECONOMIC RESEARCH SERVICE	3,584	-	-	-	-	-	-	3,584	-
FOREST SERVICE	38,091	24,835	-	2,590	3,162	838	4,876	1,790	-
OFF OF INTERNAT'L COOPERATION & DEV	1,703	1,703	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	462	462	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	602,544	31,642	84	492,790	9,394	12,744	55,690	200	-
BUREAU OF THE CENSUS	438	-	84	-	-	354	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	200	-	-	-	-	-	-	200	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	586,340	31,642	-	480,222	9,394	11,221	53,861	-	-
NATIONAL BUREAU OF STANDARDS	15,566	-	-	12,568	-	1,169	1,829	-	-
DEPARTMENT OF DEFENSE, TOTAL	604,285	55,320	18,926	194,888	81,557	59,320	188,146	3,961	2,167
DEPARTMENT OF THE ARMY	148,089	31,019	4,514	49,496	10,469	8,033	44,409	149	-
DEPARTMENT OF THE NAVY	238,000	17,148	5,800	79,688	58,711	18,677	55,502	2,474	-
DEPARTMENT OF THE AIR FORCE	125,800	5,857	5,985	32,346	10,628	10,750	60,234	-	-
DEFENSE AGENCIES	92,396	1,296	2,627	33,358	1,749	21,860	28,001	1,338	2,167
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,900,384	1,685,098	58,985	53,244	-	5,213	28,273	33,187	36,384
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	116,309	66,635	34,652	422	-	-	35	10,321	4,244
HEALTH SERVICES ADMINISTRATION	3,800	3,800	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,766,788	1,614,663	24,333	52,822	-	5,110	28,238	9,482	32,140
HUMAN DEVELOPMENT SERVICES	446	-	-	-	-	-	-	446	-
OFFICE OF ASST'T SECY FOR HEALTH	12,441	-	-	-	-	103	-	12,338	-
OFFICE OF THE SECRETARY	600	-	-	-	-	-	-	600	-
DEPARTMENT OF THE INTERIOR, TOTAL	80,663	5,868	-	10,080	53,666	2,507	7,488	1,054	-
BONNEVILLE POWER ADMINISTRATION	420	-	-	-	-	-	420	-	-
BUREAU OF MINES	13,600	-	-	5,400	1,450	1,100	5,650	-	-
BUREAU OF RECLAMATION	118	-	-	-	-	-	118	-	-
GEOLOGICAL SURVEY	53,493	-	-	3,000	49,493	1,000	-	-	-
OFFICE OF THE SECRETARY	1,514	-	-	-	1,193	107	-	214	-
OFFICE OF WATER RSCH & TECHNOLOGY	7,630	1,980	-	1,680	1,530	300	1,300	840	-
US FISH & WILDLIFE SERVICE	3,888	3,888	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	4,631	-	966	-	-	-	-	3,665	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	4,631	-	966	-	-	-	-	3,665	-
DEPARTMENT OF LABOR, TOTAL	3,740	-	-	-	-	-	-	3,740	-
EMPLOYMENT & TRAINING ADMIN	3,740	-	-	-	-	-	-	3,740	-
DEPARTMENT OF TRANSPORTATION, TOTAL	1,210	-	-	-	260	-	950	-	-
COAST GUARD	260	-	-	-	260	-	-	-	-
MARITIME ADMINISTRATION	650	-	-	-	-	-	650	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	300	-	-	-	-	-	300	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,344	-	-	-	-	258	-	2,086	-
INTERNAL REVENUE SERVICE	2,344	-	-	-	-	258	-	2,086	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	60	60	-	-	-		-	-	-
ENVIRONMENTAL PROTECTION AGENCY	10,500	5,063	-	2,908	2,529	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,639	234	-	2,405	-	-	-	-	-
FEDERAL TRADE COMMISSION	935	-	-	-	-	-	-	935	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	20,576	-	-	-	-	-	-	20,576	-
INTERNATIONAL COMMUNICATION AGENCY	104	-	-	-	-	-	-	104	-
LIBRARY OF CONGRESS	200	-	-	-	-	-	-	-	200
NATIONAL AERONAUTICS & SPACE ADMIN	531,122	10,409	864	268,874	118,196	1,934	128,682	199	1,964
NATIONAL SCIENCE FOUNDATION	896,569	161,787	10,066	254,815	259,308	55,761	100,241	29,953	24,638
SMITHSONIAN INSTITUTION	44,861	17,500	-	8,144	3,147	-	-	16,070	-
TENNESSEE VALLEY AUTHORITY	4,800	1,700	-	3,100	-	-	-	-	-
VETERANS ADMINISTRATION	15,000	13,899	1,101	-	-	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-38. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	5,310,848	2,329,982	92,248	1,432,036	523,715	164,938	587,872	121,470	58,587
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	332,071	248,909	-	36,857	4,929	1,393	17,503	22,480	-
AGRICULTURAL RESEARCH SERVICE	196,147	153,502	-	30,485	1,293	555	10,030	282	-
COOPERATIVE STATE RESEARCH SERVICE	91,927	68,273	-	3,780	473	-	2,592	16,809	-
ECONOMIC RESEARCH SERVICE	3,598	-	-	-	-	-	-	3,598	-
FOREST SERVICE	38,120	24,855	-	2,592	3,163	838	4,881	1,791	-
OFF OF INTERNAT'L COOPERATION & DEV	1,762	1,762	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	517	517	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	664,262	35,046	63	546,167	9,720	12,551	60,415	300	-
BUREAU OF THE CENSUS	331	-	63	-	-	268	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	300	-	-	-	-	-	-	300	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	646,750	35,046	-	531,699	9,600	11,600	58,805	-	-
NATIONAL BUREAU OF STANDARDS	16,881	-	-	14,468	120	683	1,610	-	-
DEPARTMENT OF DEFENSE, TOTAL	674,243	72,963	19,820	180,898	92,425	80,594	222,217	4,137	1,189
DEPARTMENT OF THE ARMY	167,145	43,610	4,115	51,679	10,275	8,598	48,700	168	-
DEPARTMENT OF THE NAVY	280,000	18,698	7,190	91,451	68,207	22,611	69,953	1,890	-
DEPARTMENT OF THE AIR FORCE	140,400	8,441	6,586	34,466	11,587	12,953	66,367	-	-
DEFENSE AGENCIES	86,698	2,214	1,929	3,302	2,356	36,432	37,197	2,079	1,189
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,970,658	1,755,345	60,833	55,909	-	5,578	29,431	25,662	37,900
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	124,354	73,622	35,500	916	-	-	32	9,844	4,440
HEALTH SERVICES ADMINISTRATION	700	700	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,839,400	1,681,023	25,333	54,993	-	5,320	29,399	9,872	33,460
OFFICE OF ASST'T SECY FOR HEALTH	5,804	-	-	-	-	258	-	5,546	-
OFFICE OF THE SECRETARY	400	-	-	-	-	-	-	400	-
DEPARTMENT OF THE INTERIOR, TOTAL	74,163	4,738	-	8,640	50,824	2,075	7,276	610	-
BONNEVILLE POWER ADMINISTRATION	500	-	-	-	-	-	500	-	-
BUREAU OF MINES	12,900	-	-	5,500	900	900	5,600	-	-
BUREAU OF RECLAMATION	206	-	-	-	-	-	206	-	-
GEOLOGICAL SURVEY	52,625	-	-	2,790	48,905	930	-	-	-
OFFICE OF THE SECRETARY	594	-	-	-	189	135	-	270	-
OFFICE OF WATER RSCH & TECHNOLOGY	3,330	730	-	350	830	110	970	340	-
US FISH & WILDLIFE SERVICE	4,008	4,008	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	4,442	-	947	-	-	-	-	3,495	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	4,442	-	947	-	-	-	-	3,495	-
DEPARTMENT OF LABOR, TOTAL	3,642	-	-	-	-	-	-	3,642	-
EMPLOYMENT & TRAINING ADMIN	3,642	-	-	-	-	-	-	3,642	-
DEPARTMENT OF TRANSPORTATION, TOTAL	900	-	-	-	-	-	900	-	-
MARITIME ADMINISTRATION	700	-	-	-	-	-	700	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	200	-	-	-	-	-	200	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,023	-	-	-	-	971	-	1,052	-
INTERNAL REVENUE SERVICE	2,023	-	-	-	-	971	-	1,052	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	14,700	5,663	-	5,347	3,690	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,438	129	-	1,309	-	-	-	-	-
FEDERAL TRADE COMMISSION	985	-	-	-	-	-	-	985	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	15,316	-	-	-	-	-	-	15,316	-
INTERNATIONAL COMMUNICATION AGENCY	75	-	-	-	-	-	-	75	-
LIBRARY OF CONGRESS	100	-	-	-	-	-	-	-	100
NATIONAL AERONAUTICS & SPACE ADMIN	575,282	10,439	850	316,390	100,097	1,900	143,406	200	2,000
NATIONAL SCIENCE FOUNDATION	910,794	165,231	7,929	268,816	258,676	59,876	106,724	26,144	17,398
SMITHSONIAN INSTITUTION	47,554	18,525	-	8,303	3,354	-	-	17,372	-
TENNESSEE VALLEY AUTHORITY	5,200	1,800	-	3,400	-	-	-	-	-
VETERANS ADMINISTRATION	13,000	11,194	1,806	-	-	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-39. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	5,765,190	2,428,309	99,963	1,650,350	559,365	185,538	655,347	124,323	61,995
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	359,123	272,042	-	40,511	4,849	1,403	18,365	21,953	-
AGRICULTURAL RESEARCH SERVICE	221,559	173,390	-	34,434	1,460	627	11,329	319	-
COOPERATIVE STATE RESEARCH SERVICE	96,435	73,423	-	3,678	461	-	2,521	16,352	-
ECONOMIC RESEARCH SERVICE	3,624	-	-	-	-	-	-	3,624	-
FOREST SERVICE	35,275	22,999	-	2,399	2,928	776	4,515	1,658	-
OFF OF INTERNAT'L COOPERATION & DEV	1,724	1,724	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	506	506	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	756,456	28,320	79	634,211	11,850	14,908	67,088	-	-
BUREAU OF THE CENSUS	414	-	79	-	-	335	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	738,694	28,320	-	619,564	11,850	13,850	65,110	-	-
NATIONAL BUREAU OF STANDARDS	17,348	-	-	14,647	-	723	1,978	-	-
DEPARTMENT OF DEFENSE, TOTAL	782,135	79,619	23,375	208,362	110,236	93,751	259,818	5,517	1,457
DEPARTMENT OF THE ARMY	203,594	49,881	5,559	60,441	13,053	11,252	62,476	67	865
DEPARTMENT OF THE NAVY	305,000	18,563	8,564	101,327	72,890	28,112	73,177	2,367	-
DEPARTMENT OF THE AIR FORCE	164,200	9,101	6,388	42,102	12,725	16,426	77,458	-	-
DEFENSE AGENCIES	109,341	2,074	2,864	4,492	11,568	37,961	46,707	3,083	592
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,042,332	1,813,901	65,206	57,769	-	5,906	30,349	29,930	39,271
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	135,424	79,811	39,084	1,063	-	-	35	10,663	4,768
HEALTH SERVICES ADMINISTRATION	700	700	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,896,700	1,733,390	26,122	56,706	-	5,486	30,314	10,179	34,503
HUMAN DEVELOPMENT SERVICES	3,146	-	-	-	-	-	-	3,146	-
OFFICE OF ASST'T SECY FOR HEALTH	6,062	-	-	-	-	420	-	5,642	-
OFFICE OF THE SECRETARY	300	-	-	-	-	-	-	300	-
DEPARTMENT OF THE INTERIOR, TOTAL	67,649	3,821	-	8,140	47,473	2,005	5,960	250	-
BONNEVILLE POWER ADMINISTRATION	600	-	-	-	-	-	600	-	-
BUREAU OF MINES	12,500	-	-	5,500	800	1,000	5,200	-	-
BUREAU OF RECLAMATION	160	-	-	-	-	-	160	-	-
GEOLOGICAL SURVEY	50,018	-	-	2,640	46,498	880	-	-	-
OFFICE OF THE SECRETARY	550	-	-	-	175	125	-	250	-
US FISH & WILDLIFE SERVICE	3,821	3,8[illegible]	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	3,801	-	850	-	-	-	-	2,951	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	3,801	-	850	-	-	-	-	2,951	-
DEPARTMENT OF TRANSPORTATION, TOTAL	700	-	-	-	-	-	700	-	-
MARITIME ADMINISTRATION	700	-	-	-	-	-	700	-	-
DEPARTMENT OF THE TREASURY, TOTAL	3,114	-	-	-	-	1,495	-	1,619	-
INTERNAL REVENUE SERVICE	3,114	-	-	-	-	1,495	-	1,619	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	9,800	4,715	-	2,631	2,454	-	-	-	-
FEDERAL TRADE COMMISSION	1,105	-	-	-	-	-	-	1,105	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	15,466	-	-	-	-	-	-	15,466	-
LIBRARY OF CONGRESS	100	-	-	-	-	-	-	-	100
NATIONAL AERONAUTICS & SPACE ADMIN	677,223	13,882	850	404,407	94,199	1,900	159,785	200	2,000
NATIONAL SCIENCE FOUNDATION	975,555	177,510	8,372	281,966	284,709	64,170	113,282	26,379	19,167
SMITHSONIAN INSTITUTION	51,031	19,830	-	8,653	3,595	-	-	18,953	-
TENNESSEE VALLEY AUTHORITY	5,700	2,000	-	3,700	-	-	-	-	-
VETERANS ADMINISTRATION	13,900	12,669	1,231	-	-	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-40. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	90,992	30,545	30,211	30,236	2,223,848	1,201,686	83,299	177,387	706,205	55,271
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	235,268	38,424	16,327	175,921	4,596	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	145,645	17,234	5,014	121,871	1,526	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	62,623	7,668	-	51,885	3,070	-
FOREST SERVICE	-	-	-	-	24,835	13,522	11,313	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	1,703	-	-	1,703	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	462	-	-	462	-	-
DEPARTMENT OF COMMERCE, TOTAL	84	-	84	-	31,642	31,442	-	-	-	200
BUREAU OF THE CENSUS	84	-	84	-	-	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	-	-	-	-	31,642	31,442	-	-	-	200
DEPARTMENT OF DEFENSE, TOTAL	18,926	280	15,610	3,036	55,320	18,833	4,096	-	32,391	-
DEPARTMENT OF THE ARMY	4,514	102	2,207	2,205	31,019	2,499	296	-	28,224	-
DEPARTMENT OF THE NAVY	5,800	-	5,800	-	17,148	12,434	1,843	-	2,871	-
DEPARTMENT OF THE AIR FORCE	5,985	-	5,985	-	5,857	3,900	1,957	-	-	-
DEFENSE AGENCIES	2,627	178	1,618	831	1,296	-	-	-	1,296	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	58,985	21,588	10,863	26,534	1,685,098	976,095	67	-	656,081	52,855
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	34,652	21,588	10,863	2,201	66,635	50,156	67	-	14,164	2,248
HEALTH SERVICES ADMINISTRATION	-	-	-	-	3,800	-	-	-	3,800	-
NATIONAL INSTITUTES OF HEALTH	24,333	-	-	24,333	1,614,663	925,939	-	-	638,117	50,607
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	5,868	3,958	800	1,110	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	1,980	70	800	1,110	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	3,888	3,888	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	966	200	766	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	966	200	766	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	60	60	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	5,063	-	5,063	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	234	234	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	864	128	99	637	10,409	6,191	494	349	1,238	2,137
NATIONAL SCIENCE FOUNDATION	10,066	7,249	2,788	29	161,787	116,285	45,416	7	-	79
SMITHSONIAN INSTITUTION	-	-	-	-	17,500	6,464	11,036	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,700	1,700	-	-	-	-
VETERANS ADMINISTRATION	1,101	1,100	1	-	13,899	2,000	-	-	11,899	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-41. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	92,248	30,991	31,456	29,801	2,329,982	1,254,868	87,126	190,724	737,991	57,273
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	248,909	37,159	16,743	190,094	4,913	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	153,502	15,453	5,421	131,136	1,492	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	68,273	8,173	-	56,679	3,421	-
FOREST SERVICE	-	-	-	-	24,855	13,533	11,322	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	1,762	-	-	1,762	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	517	-	-	517	-	-
DEPARTMENT OF COMMERCE, TOTAL	63	-	63	-	35,046	34,946	-	-	-	100
BUREAU OF THE CENSUS	63	-	63	-	-	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	-	-	-	-	35,046	34,946	-	-	-	100
DEPARTMENT OF DEFENSE, TOTAL	19,820	155	17,934	1,731	72,963	24,554	4,555	-	43,854	-
DEPARTMENT OF THE ARMY	4,115	155	2,475	1,485	43,610	4,125	380	-	39,105	-
DEPARTMENT OF THE NAVY	7,190	-	7,190	-	18,698	13,673	1,974	-	3,051	-
DEPARTMENT OF THE AIR FORCE	6,586	-	6,586	-	8,441	6,240	2,201	-	-	-
DEFENSE AGENCIES	1,929	-	1,683	246	2,214	516	-	-	1,698	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	60,833	22,168	11,220	27,445	1,755,345	1,020,194	74	-	680,004	55,073
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	35,500	22,168	11,220	2,112	73,622	56,201	74	-	14,961	2,386
HEALTH SERVICES ADMINISTRATION	-	-	-	-	700	-	-	-	700	-
NATIONAL INSTITUTES OF HEALTH	25,333	-	-	25,333	1,681,023	963,993	-	-	664,343	52,687
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	4,738	4,088	370	280	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	730	80	370	280	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	4,008	4,008	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	947	250	697	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	947	250	697	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	5,663	-	5,663	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	129	129	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	850	125	100	625	10,439	6,189	500	350	1,300	2,100
NATIONAL SCIENCE FOUNDATION	7,929	6,488	1,441	-	165,231	117,360	47,871	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	18,525	7,175	11,350	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,800	1,800	-	-	-	-
VETERANS ADMINISTRATION	1,806	1,805	1	-	11,194	1,274	-	-	9,920	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-42. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	99,963	32,702	35,664	31,597	2,428,309	1,296,539	91,372	212,651	768,843	58,904
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	272,042	38,127	16,599	212,301	5,015	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	173,390	17,455	6,123	148,125	1,687	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	73,423	8,149	-	61,946	3,328	-
FOREST SERVICE	-	-	-	-	22,999	12,523	10,476	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	1,724	-	-	1,724	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	506	-	-	506	-	-
DEPARTMENT OF COMMERCE, TOTAL	79	-	79	-	28,320	28,320	-	-	-	-
BUREAU OF THE CENSUS	79	-	79	-	-	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	-	-	-	-	28,320	28,320	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	23,375	281	20,566	2,528	79,619	23,922	5,955	-	49,742	-
DEPARTMENT OF THE ARMY	5,559	155	3,002	2,402	49,881	4,603	450	-	44,828	-
DEPARTMENT OF THE NAVY	8,564	-	8,564	-	18,563	13,086	2,304	-	3,173	-
DEPARTMENT OF THE AIR FORCE	6,388	-	6,388	-	9,101	5,900	3,201	-	-	-
DEFENSE AGENCIES	2,864	126	2,612	126	2,074	333	-	-	1,741	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	65,206	23,888	12,874	28,444	1,813,901	1,054,574	76	-	702,447	56,804
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	39,084	23,888	12,874	2,322	79,811	60,550	76	-	16,709	2,476
HEALTH SERVICES ADMINISTRATION	-	-	-	-	700	-	-	-	700	-
NATIONAL INSTITUTES OF HEALTH	26,122	-	-	26,122	1,733,390	994,024	-	-	685,038	54,328
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	3,821	3,821	-	-	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	3,821	3,821	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	850	350	500	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	850	350	500	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	4,715	-	4,715	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	850	125	100	625	13,882	9,632	500	350	1,300	2,100
NATIONAL SCIENCE FOUNDATION	8,372	6,828	1,544	-	177,510	125,728	51,782	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	19,830	8,085	11,745	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,000	2,000	-	-	-	-
VETERANS ADMINISTRATION	1,231	1,230	1	-	12,669	2,330	-	-	10,339	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-43. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,324,940	274,227	298,188	735,417	17,108	532,833	173,829	194,205	143,294	21,505
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	33,692	-	31,821	1,871	-	4,776	2,193	2,583	-	-
AGRICULTURAL RESEARCH SERVICE	27,709	-	26,485	1,224	-	1,189	930	259	-	-
COOPERATIVE STATE RESEARCH SERVICE	3,393	-	3,393	-	-	425	425	-	-	-
FOREST SERVICE	2,590	-	1,943	647	-	3,162	838	2,324	-	-
DEPARTMENT OF COMMERCE, TOTAL	492,790	365	72,867	419,058	500	9,394	-	9,094	-	300
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	480,222	-	69,984	409,738	500	9,394	-	9,094	-	300
NATIONAL BUREAU OF STANDARDS	12,568	365	2,883	9,320	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	194,888	13,390	43,475	128,368	9,655	81,557	20,804	12,407	40,026	8,319
DEPARTMENT OF THE ARMY	49,496	-	14,482	26,565	8,449	10,469	6,565	3,538	-	366
DEPARTMENT OF THE NAVY	79,688	8,582	15,890	55,216	-	58,711	5,691	5,283	39,784	7,953
DEPARTMENT OF THE AIR FORCE	32,346	4,808	12,907	14,631	-	10,628	8,549	2,079	-	-
DEFENSE AGENCIES	33,358	-	196	31,956	1,206	1,749	-	1,507	242	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	53,244	-	47,992	5,252	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	422	-	422	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	52,822	-	47,570	5,252	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	10,080	-	6,750	1,130	2,200	53,666	30	49,803	2,640	1,193
BUREAU OF MINES	5,400	-	3,200	-	2,200	1,450	-	1,450	-	-
GEOLOGICAL SURVEY	3,000	-	2,000	1,000	-	49,493	-	47,053	2,440	-
OFFICE OF THE SECRETARY	-	-	-	-	-	1,193	-	-	-	1,193
OFFICE OF WATER RSCH & TECHNOLOGY	1,680	-	1,550	130	-	1,530	30	1,300	200	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	-	260	-	-	-	260
COAST GUARD	-	-	-	-	-	260	-	-	-	260
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	2,908	-	2,908	-	-	2,529	1,362	894	273	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,405	-	1,185	1,220	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	268,874	193,249	6,615	64,916	4,094	118,196	62,672	48,480	3,602	3,442
NATIONAL SCIENCE FOUNDATION	254,815	59,079	81,475	113,602	659	259,308	86,667	68,810	95,840	7,991
SMITHSONIAN INSTITUTION	8,144	8,144	-	-	-	3,147	100	2,134	913	-
TENNESSEE VALLEY AUTHORITY	3,100	-	3,100	-	-	-	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-44. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,432,036	313,550	322,575	778,228	17,683	523,715	173,177	180,881	151,381	18,276
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	36,857	-	35,103	1,754	-	4,929	2,320	2,609	-	-
AGRICULTURAL RESEARCH SERVICE	30,485	-	29,379	1,106	-	1,293	1,009	284	-	-
COOPERATIVE STATE RESEARCH SERVICE	3,780	-	3,780	-	-	473	473	-	-	-
FOREST SERVICE	2,592	-	1,944	648	-	3,163	838	2,325	-	-
DEPARTMENT OF COMMERCE, TOTAL	546,167	417	83,933	461,317	500	9,720	-	9,500	-	220
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	531,699	-	78,881	452,318	500	9,600	-	9,500	-	100
NATIONAL BUREAU OF STANDARDS	14,468	417	5,052	8,999	-	120	-	-	-	120
DEPARTMENT OF DEFENSE, TOTAL	180,898	15,792	48,433	105,801	10,872	92,425	21,583	13,294	47,729	9,819
DEPARTMENT OF THE ARMY	51,679	-	16,693	25,796	9 190	10,275	6,725	3,221	-	329
DEPARTMENT OF THE NAVY	91,451	10,412	17,612	63,427	-	68,207	5,854	5,523	47,346	9,484
DEPARTMENT OF THE AIR FORCE	34,466	5,380	14,128	14,958	-	11,587	9,004	2,583	-	-
DEFENSE AGENCIES	3,302	-	-	1,620	1,682	2,356	-	1,967	383	6
DEPT OF HLTH & HUMAN SERVICES, TOTAL	55,909	-	50,441	5,468	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	916	-	916	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	54,993	-	49,525	5,468	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	8,640	-	5,830	1,010	1,800	50,824	30	48,151	2,454	189
BUREAU OF MINES	5,500	-	3,700	-	1,800	900	-	900	-	-
GEOLOGICAL SURVEY	2,790	-	1,860	930	-	48,905	-	46,541	2,364	-
OFFICE OF THE SECRETARY	-	-	-	-	-	189	-	-	-	189
OFFICE OF WATER RSCH & TECHNOLOGY	350	-	270	80	-	830	30	710	90	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	5,347	-	5,347	-	-	3,690	918	1,652	1,120	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,309	-	647	662	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	316,390	225,502	4,066	82,697	4,125	100,097	59,746	34,308	2,543	3,500
NATIONAL SCIENCE FOUNDATION	268,816	63,536	85,375	119,519	386	258,676	88,483	69,026	96,619	4,548
SMITHSONIAN INSTITUTION	8,303	8,303	-	-	-	3,354	97	2,341	916	-
TENNESSEE VALLEY AUTHORITY	3,400	-	3,400	-	-	-	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-45. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,650,350	379,073	348,721	905,191	17,365	559,365	188,879	182,217	173,309	14,960
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	40,511	-	38,662	1,849	-	4,849	2,377	2,472	-	-
AGRICULTURAL RESEARCH SERVICE	34,434	-	33,185	1,249	-	1,460	1,140	320	-	-
COOPERATIVE STATE RESEARCH SERVICE	3,678	-	3,678	-	-	461	461	-	-	-
FOREST SERVICE	2,399	-	1,799	600	-	2,928	776	2,152	-	-
DEPARTMENT OF COMMERCE, TOTAL	634,211	441	91,213	542,557	-	11,850	-	11,850	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	619,564	-	86,606	532,958	-	11,850	-	11,850	-	-
NATIONAL BUREAU OF STANDARDS	14,647	441	4,607	9,599	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	208,362	15,813	59,851	121,642	11,056	110,236	24,902	13,790	59,221	12,323
DEPARTMENT OF THE ARMY	60,441	-	20,042	31,678	8,721	13,053	8,611	4,092	-	350
DEPARTMENT OF THE NAVY	101,327	9,896	20,049	71,382	-	72,890	6,217	6,151	48,549	11,973
DEPARTMENT OF THE AIR FORCE	42,102	5,917	19,760	16,425	-	12,725	10,074	2,651	-	-
DEFENSE AGENCIES	4,492	-	-	2,157	2,335	11,568	-	896	10,672	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	57,769	-	52,131	5,638	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,063	-	1,063	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	56,706	-	51,068	5,638	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	8,140	-	5,460	880	1,800	47,473	-	44,857	2,441	175
BUREAU OF MINES	5,500	-	3,700	-	1,800	800	-	800	-	-
GEOLOGICAL SURVEY	2,640	-	1,760	880	-	46,498	-	44,057	2,441	-
OFFICE OF THE SECRETARY	-	-	-	-	-	175	-	-	-	175
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	2,631	-	2,631	-	-	2,454	873	1,206	375	-
NATIONAL AERONAUTICS & SPACE ADMIN	404,407	286,680	5,500	108,102	4,125	94,199	60,027	30,129	2,879	1,164
NATIONAL SCIENCE FOUNDATION	281,966	67,486	89,573	124,523	384	284,709	100,596	75,321	107,494	1,298
SMITHSONIAN INSTITUTION	8,653	8,653	-	-	-	3,595	104	2,592	899	-
TENNESSEE VALLEY AUTHORITY	3,700	-	3,700	-	-	-	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-46. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	526,018	113,284	33,179	31,330	23,362	78,508	47,378	138,480	60,497
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	16,548	-	-	2,441	1,087	61	1,157	-	11,802
AGRICULTURAL RESEARCH SERVICE	9,346	-	-	1,107	592	61	281	-	7,305
COOPERATIVE STATE RESEARCH SERVICE	2,326	-	-	-	-	-	-	-	2,326
FOREST SERVICE	4,876	-	-	1,334	495	-	876	-	2,171
DEPARTMENT OF COMMERCE, TOTAL	55,690	-	-	2,183	-	-	3,766	40,489	9,252
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	53,861	-	-	2,183	-	-	3,400	39,309	8,969
NATIONAL BUREAU OF STANDARDS	1,829	-	-	-	-	-	366	1,180	283
DEPARTMENT OF DEFENSE, TOTAL	188,146	28,459	807	9,282	2,664	50,885	27,288	65,883	2,878
DEPARTMENT OF THE ARMY	44,409	7,791	441	1,752	1,503	16,852	6,174	9,602	294
DEPARTMENT OF THE NAVY	55,502	3,312	-	7,482	31	11,098	11,556	19,867	2,156
DEPARTMENT OF THE AIR FORCE	60,234	17,035	-	-	1,130	15,426	9,331	17,312	-
DEFENSE AGENCIES	28,001	321	366	48	-	7,509	227	19,102	428
DEPT OF HLTH & HUMAN SERVICES, TOTAL	28,273	-	-	-	-	-	-	-	28,273
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	35	-	-	-	-	-	-	-	35
NATIONAL INSTITUTES OF HEALTH	28,238	-	-	-	-	-	-	-	28,238
DEPARTMENT OF THE INTERIOR, TOTAL	7,488	-	-	-	1,365	973	500	4,150	500
BONNEVILLE POWER ADMINISTRATION	420	-	-	-	-	420	-	-	-
BUREAU OF MINES	5,650	-	-	-	-	500	500	4,150	500
BUREAU OF RECLAMATION	118	-	-	-	65	53	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,300	-	-	-	1,300	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	950	-	-	-	-	100	750	100	-
MARITIME ADMINISTRATION	650	-	-	-	-	100	450	100	-
RESEARCH & SPECIAL PROGRAMS ADMIN	300	-	-	-	-	-	300	-	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	128,682	84,825	32,249	253	112	2,281	1,794	5,255	1,913
NATIONAL SCIENCE FOUNDATION	100,241	-	123	17,171	18,134	24,208	12,123	22,603	5,879

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

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TABLE C-47. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	587,872	119,189	45,107	35,478	26,142	86,910	52,563	156,690	65,793
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	17,503	-	-	2,602	1,044	138	1,205	-	12,514
AGRICULTURAL RESEARCH SERVICE	10,030	-	-	1,268	548	138	327	-	7,749
COOPERATIVE STATE RESEARCH SERVICE	2,592	-	-	-	-	-	-	-	2,592
FOREST SERVICE	4,881	-	-	1,334	496	-	878	-	2,173
DEPARTMENT OF COMMERCE, TOTAL	60,415	-	-	3,400	-	-	4,303	43,695	9,017
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	58,805	-	-	3,400	-	-	3,900	42,515	8,990
NATIONAL BUREAU OF STANDARDS	1,610	-	-	-	-	-	403	1,180	27
DEPARTMENT OF DEFENSE, TOTAL	222,217	32,442	-	11,517	3,021	57,911	31,246	79,809	6,271
DEPARTMENT OF THE ARMY	48,700	8,580	-	1,650	1,421	19,593	6,765	10,395	296
DEPARTMENT OF THE NAVY	69,952	3,604	-	9,844	-	14,974	14,599	24,210	2,722
DEPARTMENT OF THE AIR FORCE	66,367	20,207	-	-	1,600	16,192	9,654	18,714	-
DEFENSE AGENCIES	37,197	51	-	23	-	7,152	228	26,490	3,253
DEPT OF HLTH & HUMAN SERVICES, TOTAL	29,431	-	-	-	-	-	-	-	29,431
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	32	-	-	-	-	-	-	-	32
NATIONAL INSTITUTES OF HEALTH	29,399	-	-	-	-	-	-	-	29,399
DEPARTMENT OF THE INTERIOR, TOTAL	7,276	-	-	-	1,126	1,050	500	4,100	500
BONNEVILLE POWER ADMINISTRATION	500	-	-	-	-	500	-	-	-
BUREAU OF MINES	5,600	-	-	-	-	500	500	4,100	500
BUREAU OF RECLAMATION	206	-	-	-	156	50	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	970	-	-	-	970	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	900	-	-	-	-	-	700	200	-
MARITIME ADMINISTRATION	700	-	-	-	-	-	500	200	-
RESEARCH & SPECIAL PROGRAMS ADMIN	200	-	-	-	-	-	200	-	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	143,406	86,747	44,984	250	125	2,300	1,800	5,300	1,900
NATIONAL SCIENCE FOUNDATION	106,724	-	123	17,709	20,826	25,511	12,809	23,586	6,160

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-48. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	655,347	136,023	48,132	40,369	22,625	103,833	63,266	175,226	65,873
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	18,365	-	-	2,666	1,078	56	1,180	-	13,285
AGRICULTURAL RESEARCH SERVICE	11,329	-	-	1,432	619	156	369	-	8,753
COOPERATIVE STATE RESEARCH SERVICE	2,521	-	-	-	-	-	-	-	2,521
FOREST SERVICE	4,515	-	-	1,234	459	-	811	-	2,011
DEPARTMENT OF COMMERCE, TOTAL	67,088	-	-	4,400	-	-	5,776	47,278	9,634
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	65,110	-	-	4,400	-	-	5,350	46,030	9,330
NATIONAL BUREAU OF STANDARDS	1,978	-	-	-	-	-	426	1,248	304
DEPARTMENT OF DEFENSE, TOTAL	259,818	35,913	-	13,067	2,754	71,759	38,980	94,026	3,319
DEPARTMENT OF THE ARMY	62,476	10,407	-	2,201	1,624	24,816	9,806	13,008	614
DEPARTMENT OF THE NAVY	73,177	3,946	-	10,801	20	14,454	16,057	25,759	2,140
DEPARTMENT OF THE AIR FORCE	77,458	21,560	-	-	1,110	17,761	13,117	23,910	-
DEFENSE AGENCIES	46,707	-	-	65	-	14,728	-	31,349	565
DEPT OF HLTH & HUMAN SERVICES, TOTAL	30,349	-	-	-	-	-	-	-	30,349
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	35	-	-	-	-	-	-	-	35
NATIONAL INSTITUTES OF HEALTH	30,314	-	-	-	-	-	-	-	30,314
DEPARTMENT OF THE INTERIOR, TOTAL	5,960	-	-	-	120	1,040	400	4,000	400
BONNEVILLE POWER ADMINISTRATION	600	-	-	-	-	600	-	-	-
BUREAU OF MINES	5,200	-	-	-	-	400	400	4,000	400
BUREAU OF RECLAMATION	160	-	-	-	120	40	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	700	-	-	-	-	-	500	200	-
MARITIME ADMINISTRATION	700	-	-	-	-	-	500	200	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	159,785	100,110	48,000	250	125	2,300	1,800	5,300	1,900
NATIONAL SCIENCE FOUNDATION	113,282	-	132	19,986	18,548	28,578	14,630	24,422	6,986

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-69. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	140,360	79,174	52,205	8,981	136,951	13,078	34,112	6,286	22,593	60,882
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	2,623	2,623	-	-	21,221	60	18,696	489	1,911	65
AGRICULTURAL RESEARCH SERVICE	1,785	1,785	-	-	762	60	628	-	12	62
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	15,085	-	14,287	-	798	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	3,584	-	3,057	489	35	3
FOREST SERVICE	838	838	-	-	1,790	-	724	-	1,066	-
DEPARTMENT OF COMMERCE, TOTAL	12,744	8,950	3,710	84	200	-	200	-	-	-
BUREAU OF THE CENSUS	354	354	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	200	-	200	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	11,221	8,173	3,048	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	1,169	423	662	84	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	59,320	28,704	23,839	6,777	3,961	-	-	788	2,518	655
DEPARTMENT OF THE ARMY	8,033	6,027	1,911	95	149	-	-	-	44	105
DEPARTMENT OF THE NAVY	18,677	9,497	8,829	351	2,474	-	-	-	2,474	-
DEPARTMENT OF THE AIR FORCE	10,750	8,750	2,000	-	-	-	-	-	-	-
DEFENSE AGENCIES	21,860	4,430	11,099	6,331	1,338	-	-	788	-	550
DEPT OF HLTH & HUMAN SERVICES, TOTAL	5,213	5,213	-	-	33,187	273	1,514	709	13,094	17,597
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	-	-	-	-	10,321	273	81	408	8,041	1,518
NATIONAL INSTITUTES OF HEALTH	5,110	5,110	-	-	9,482	-	-	-	-	9,482
HUMAN DEVELOPMENT SERVICES	-	-	-	-	446	-	-	-	-	446
OFFICE OF ASST'T SECY FOR HEALTH	103	103	-	-	12,338	-	1,013	301	4,873	6,151
OFFICE OF THE SECRETARY	-	-	-	-	600	-	420	-	180	-
DEPARTMENT OF THE INTERIOR, TOTAL	2,507	1,200	1,007	300	1,054	-	424	-	-	630
BUREAU OF MINES	1,100	1,100	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	1,000	100	900	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	107	-	107	-	214	-	214	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	300	-	-	300	840	-	210	-	-	630
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	3,665	-	200	350	1,640	1,475
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	3,665	-	200	350	1,640	1,475
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	3,740	-	3,740	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	3,740	-	3,740	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	258	258	-	-	2,086	-	2,043	-	43	-
INTERNAL REVENUE SERVICE	258	258	-	-	2,086	-	2,043	-	43	-
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	935	-	-	935	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	-	-	-	-	20,576	-	-	-	-	20,576
INTERNATIONAL COMMUNICATION AGENCY	-	-	-	-	104	-	-	-	-	104
NATIONAL AERONAUTICS & SPACE ADMIN	1,934	776	423	735	199	-	-	-	-	199
NATIONAL SCIENCE FOUNDATION	55,761	31,450	23,226	1,085	29,953	6,301	7,295	3,015	3,387	9,955
SMITHSONIAN INSTITUTION	-	-	-	-	16,070	6,444	-	-	-	9,626

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-50. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	164,938	91,135	65,229	8,574	121,470	14,070	33,368	4,966	18,290	50,776
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,393	1,393	-	-	22,480	-	19,968	35	2,459	18
AGRICULTURAL RESEARCH SERVICE	555	555	-	-	282	-	256	-	11	15
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	16,809	-	15,919	-	890	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	3,598	-	3,069	35	491	3
FOREST SERVICE	838	838	-	-	1,791	-	724	-	1,067	-
DEPARTMENT OF COMMERCE, TOTAL	12,551	8,973	3,578	-	300	-	300	-	-	-
BUREAU OF THE CENSUS	268	268	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	300	-	300	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	11,600	8,225	3,375	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	683	480	203	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	80,594	38,153	34,677	7,764	4,137	-	-	2,079	1,945	113
DEPARTMENT OF THE ARMY	8,598	6,435	2,145	18	168	-	-	-	55	113
DEPARTMENT OF THE NAVY	22,611	11,941	10,046	624	1,890	-	-	-	1,890	-
DEPARTMENT OF THE AIR FORCE	12,953	11,503	1,450	-	-	-	-	-	-	-
DEFENSE AGENCIES	36,432	8,274	21,036	7,122	2,079	-	-	2,079	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	5,578	5,578	-	-	25,662	266	792	503	10,009	14,092
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	-	-	-	-	9,844	266	57	367	7,699	1,455
NATIONAL INSTITUTES OF HEALTH	5,320	5,320	-	-	9,872	-	-	-	-	9,872
OFFICE OF ASST'T SECY FOR HEALTH	258	258	-	-	5,546	-	455	136	2,190	2,765
OFFICE OF THE SECRETARY	-	-	-	-	400	-	280	-	120	-
DEPARTMENT OF THE INTERIOR, TOTAL	2,075	993	972	110	610	-	370	-	-	240
BUREAU OF MINES	900	900	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	930	93	837	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	135	-	135	-	270	-	270	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	110	-	-	110	340	-	100	-	-	240
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	3,495	-	200	100	1,118	2,077
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	3,495	-	200	100	1,118	2,077
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	3,642	-	3,642	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	3,642	-	3,642	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	971	971	-	-	1,052	-	1,052	-	-	-
INTERNAL REVENUE SERVICE	971	971	-	-	1,052	-	1,052	-	-	-
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	985	-	985	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	-	-	-	-	15,316	-	-	-	-	15,316
INTERNATIONAL COMMUNICATION AGENCY	-	-	-	-	75	-	-	-	-	75
NATIONAL AERONAUTICS & SPACE ADMIN	1,900	800	400	700	200	-	-	-	-	200
NATIONAL SCIENCE FOUNDATION	59,876	34,274	25,602	-	26,144	5,835	6,059	2,249	2,759	9,242
SMITHSONIAN INSTITUTION	-	-	-	-	17,372	7,969	-	-	-	9,403

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-51. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	185,538	100,709	73,033	11,796	124,323	13,516	24,653	4,649	18,956	57,549
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,403	1,403	-	-	21,953	-	19,538	35	2,360	20
AGRICULTURAL RESEARCH SERVICE	627	627	-	-	319	-	290	-	12	17
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	16,352	-	15,487	-	865	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	3,624	-	1,091	35	495	3
FOREST SERVICE	776	776	-	-	1,658	-	670	-	988	-
DEPARTMENT OF COMMERCE, TOTAL	14,908	10,343	4,565	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	335	335	-	-	-	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	13,850	9,500	4,350	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	723	508	215	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	93,751	42,649	40,006	11,096	5,517	-	-	1,413	2,434	1,670
DEPARTMENT OF THE ARMY	11,252	8,405	2,802	45	67	-	-	-	67	-
DEPARTMENT OF THE NAVY	28,112	14,271	12,489	1,352	2,367	-	-	-	2,367	-
DEPARTMENT OF THE AIR FORCE	16,426	14,256	2,170	-	-	-	-	-	-	-
DEFENSE AGENCIES	37,961	5,717	22,545	9,699	3,083	-	-	1,413	-	1,670
DEPT OF HLTH & HUMAN SERVICES, TOTAL	5,906	5,906	-	-	29,930	291	736	542	10,603	17,758
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	-	-	-	-	10,663	291	63	404	8,285	1,620
NATIONAL INSTITUTES OF HEALTH	5,486	5,486	-	-	10,179	-	-	-	-	10,179
HUMAN DEVELOPMENT SERVICES	-	-	-	-	3,146	-	-	-	-	3,146
OFFICE OF ASST'T SECY FOR HEALTH	420	420	-	-	5,642	-	463	138	2,228	2,813
OFFICE OF THE SECRETARY	-	-	-	-	300	-	210	-	90	-
DEPARTMENT OF THE INTERIOR, TOTAL	2,005	1,088	917	-	250	-	250	-	-	-
BUREAU OF MINES	1,000	1,000	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	880	88	792	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	125	-	125	-	250	-	250	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	2,951	-	250	400	800	1,501
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	2,951	-	250	400	800	1,501
DEPARTMENT OF THE TREASURY, TOTAL	1,495	1,495	-	-	1,619	-	1,619	-	-	-
INTERNAL REVENUE SERVICE	1,495	1,495	-	-	1,619	-	1,619	-	-	-
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	1,105	-	1,105	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	-	-	-	-	15,466	-	-	-	-	15,466
NATIONAL AERONAUTICS & SPACE ADMIN	1,900	800	400	700	200	-	-	-	-	200
NATIONAL SCIENCE FOUNDATION	64,170	37,025	27,145	-	26,379	5,940	6,155	2,259	2,759	9,266
SMITHSONIAN INSTITUTION	-	-	-	-	18,953	7,285	-	-	-	11,668

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-52. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	7,171,485	2,732,372	1,665,390	278,066	1,416,921	450,037	392,057	59,066	102,782	74,794
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	426,856	279,714	4,140	-	137,482	-	1,042	-	1,870	2,608
AGRICULTURAL COOPERATIVE SERVICE	1,739	1,213	-	-	526	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	907	877	-	-	30	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	181,486	157,939	4,092	-	16,312	-	803	-	1,251	1,089
COOPERATIVE STATE RESEARCH SERVICE	115,531	4,194	-	-	110,913	-	-	-	424	-
ECONOMIC RESEARCH SERVICE	35,759	34,080	-	-	1,679	-	-	-	-	-
FOREST SERVICE	81,768	74,050	48	-	7,174	-	239	-	195	62
OFF OF INTERNAT'L COOPERATION & DEV	1,858	401	-	-	-	-	-	-	-	1,457
OFFICE OF TRANSPORTATION	308	308	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,500	6,652	-	-	848	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,060,436	245,142	139,410	94,594	154,439	351,131	34,291	26,240	8,528	6,661
BUREAU OF THE CENSUS	2,578	2,578	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,600	200	225	-	700	-	475	-	-	-
ENERGY RESEARCH & TECHNOLOGY ADMIN 2/	827,265	71,212	131,863	94,544	114,413	350,508	32,244	26,146	-	6,335
NATIONAL BUREAU OF STANDARDS	50,640	48,656	1,165	-	673	-	132	-	-	14
NAT'L OCEANIC & ATMOSPHERIC ADMIN	168,496	112,639	6,157	50	38,653	623	1,440	94	8,528	312
NAT'L TELECOMM & INFORMATION ADMIN	9,857	9,857	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,996,615	800,980	929,546	49,915	118,561	34,837	43,854	12,630	75	6,217
DEPARTMENT OF THE ARMY	388,366	237,634	119,772	-	18,622	1,074	8,514	980	75	1,695
DEPARTMENT OF THE NAVY	460,000	282,934	111,956	44,225	14,319	3,950	1,166	1,413	-	37
DEPARTMENT OF THE AIR FORCE	491,500	154,648	248,437	-	71,136	-	13,661	-	-	3,618
DEFENSE AGENCIES	656,749	125,764	449,381	5,690	14,484	29,813	20,513	10,237	-	867
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,591,857	398,356	98,244	9,529	794,552	4,876	234,126	709	38,434	13,031
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	121,375	29,674	4,204	-	67,111	-	16,758	-	3,169	459
CENTERS FOR DISEASE CONTROL	74,822	52,777	9,106	-	6,394	-	5,219	-	332	994
FOOD & DRUG ADMINISTRATION	71,400	57,857	3,818	-	5,726	-	3,999	-	-	-
HEALTH CARE FINANCING ADMIN	38,623	3,185	14,278	-	10,075	-	4,493	-	6,592	-
HEALTH RESOURCES ADMINISTRATION	5,038	88	-	-	4,516	-	434	-	-	-
HEALTH SERVICES ADMINISTRATION	6,436	2,178	-	-	2,503	-	1,306	-	222	227
HUMAN DEVELOPMENT SERVICES	39,451	2,484	1,534	-	23,609	-	8,071	-	2,773	980
NATIONAL INSTITUTES OF HEALTH	1,181,521	230,854	61,107	9,529	662,737	4,876	184,789	709	16,896	10,024
OFFICE OF ASST'T SECY FOR HEALTH	16,313	6,163	2,065	-	7,101	-	861	-	-	123
OFFICE OF THE SECRETARY	18,900	1,890	1,890	-	945	-	7,560	-	6,615	-
SOCIAL SECURITY ADMINISTRATION	17,978	11,206	242	-	3,835	-	636	-	1,835	224
DEPT OF HOUSING & URBAN DEVELOPMENT	16,690	15,485	67	-	240	-	767	-	131	-
DEPARTMENT OF THE INTERIOR, TOTAL	289,174	177,808	38,498	58	24,994	1,412	1,490	171	44,743	-
BONNEVILLE POWER ADMINISTRATION	6,071	1,806	3,155	-	269	-	-	71	770	-
BUREAU OF LAND MANAGEMENT	1 458	770	-	-	688	-	-	-	-	-
BUREAU OF MINES	54,400	24,400	27,400	-	1,500	85	965	50	-	-
BUREAU OF RECLAMATION	13,269	7,368	1,765	-	3,163	-	-	-	973	-
GEOLOGICAL SURVEY	115,784	105,224	3,892	-	5,737	931	-	-	-	-
NATIONAL PARK SERVICE	10,351	7,160	828	58	2,175	-	125	-	5	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	5,794	1,563	424	-	3,807	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	8,160	1,120	620	-	6,420	-	-	-	-	-
US FISH & WILDLIFE SERVICE	73,887	28,397	414	-	1,235	396	400	50	42,995	-
DEPARTMENT OF JUSTICE, TOTAL	14,872	1,118	3,328	-	6,274	-	3,152	-	1,000	-
DRUG ENFORCEMENT ADMINISTRATION	400	100	300	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,657	457	-	-	500	-	-	-	700	-
IMMIGRATION & NATURALIZATION SVC	70	47	23	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	700	100	500	-	100	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	12,045	414	2,505	-	5,674	-	3,152	-	300	-
DEPARTMENT OF LABOR, TOTAL	54,457	33,160	8,124	-	6,046	-	6,964	-	163	-
BUREAU OF LABOR STATISTICS	251	251	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	3,200	2,720	293	-	10	-	177	-	-	-
EMPLOYMENT & TRAINING ADMIN	45,054	28,003	4,829	-	5,687	-	6,372	-	163	-
LABOR-MANAGEMENT SERVICES ADMIN	1,752	1,053	45	-	297	-	357	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	3,000	20	2,870	-	52	-	58	-	-	-
OFFICE OF THE SECRETARY	1,100	1,100	-	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	100	13	87	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,606	1 015	536	-	55	-	-	-	-	-
DEPARTMENTAL FUNDS	1,606	1,015	536	-	55	-	-	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-52. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	87,379	28,618	43,502	-	8,276	200	3,924	-	2,859	-
COAST GUARD	14,703	5,249	8,984	-	270	200	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	8,200	1,804	6,396	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,100	1,224	1,112	-	1,525	-	1,076	-	163	-
FEDERAL RAILROAD ADMINISTRATION	6,200	4,774	1,426	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	8,876	200	7,697	-	400	-	500	-	79	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	29,400	8,767	15,156	-	2,047	-	1,377	-	2,053	-
OFFICE OF THE SECRETARY	700	385	315	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,900	3,083	200	-	1,617	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	9,300	3,132	2,216	-	2,417	-	971	-	564	-
DEPARTMENT OF THE TREASURY, TOTAL	2,875	2,033	792	-	-	-	-	50	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	100	50	-	-	-	-	-	50	-	-
BUREAU OF ENGRAVING AND PRINTING ...	907	832	75	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	1,814	1,141	673	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	54	10	44	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,211	2,211	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	280	10	75	-	-	-	-	-	195	-
COMMUNITY SERVICES ADMINISTRATION	1,927	40	-	-	-	-	1,887	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	150	90	60	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	207,800	101,876	49,689	-	46,268	-	5,632	-	3,178	1,157
FEDERAL COMMUNICATIONS COMMISSION	1,815	1,142	673	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	6,449	1,633	2,606	85	379	264	1,214	148	120	-
FEDERAL HOME LOAN BANK BOARD	1,036	949	87	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	165	165	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	33,212	4,339	6,799	-	14,366	-	6,704	-	882	122
GENERAL SERVICES ADMINISTRATION	390	239	118	-	-	-	33	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	1,012	187	9	-	446	-	370	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	86,400	5,172	3,804	-	32,754	-	2,157	-	-	42,513
AGENCY FOR INTERNAT'L DEVELOPMENT ..	86,400	5,172	3,804	-	32,754	-	2,157	-	-	42,513
INTERNATIONAL TRADE COMMISSION	3,397	3,397	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	700	700	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	876,036	475,577	318,502	-	32,734	23,647	24,346	38	67	1,125
NATIONAL SCIENCE FOUNDATION	58,895	7,432	9,735	-	29,905	200	11,043	-	41	539
NUCLEAR REGULATORY COMMISSION	219,667	25,114	6,501	123,885	8,123	33,186	2,696	18,845	496	821
OFFICE OF PERSONNEL MANAGEMENT	3,387	2,488	117	-	744	-	38	-	-	-
TENNESSEE VALLEY AUTHORITY	9,400	3,532	-	-	-	-	5,868	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1,639	150	428	-	83	284	459	235	-	-
VETERANS ADMINISTRATION	112,700	112,500	-	-	200	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-53. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	7,284,134	2,756,146	1,658,225	337,039	1,378,855	504,935	381,872	79,304	95,084	92,674
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	443,268	280,643	6,716	-	151,759	-	562	-	1,191	2,397
AGRICULTURAL COOPERATIVE SERVICE	1,808	908	-	-	900	-	-	-	-	-
AGRICULTURAL MARKETING SERVICE	1,177	1,177	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	189,608	165,216	4,677	-	17,921	-	364	-	571	859
COOPERATIVE STATE RESEARCH SERVICE	129,289	4,591	-	-	124,239	-	-	-	459	-
ECONOMIC RESEARCH SERVICE	35,762	35,425	-	-	337	-	-	-	-	-
FOREST SERVICE	67,857	62,752	39	-	4,656	-	198	-	161	51
HUMAN NUTRITION INFORMATION SERVICE	8,500	3,000	2,000	-	3,500	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	1,922	435	-	-	-	-	-	-	-	1,487
OFFICE OF TRANSPORTATION	345	345	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,000	6,794	-	-	206	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,097,939	231,393	157,049	138,461	130,777	357,839	30,138	43,275	239	8,768
BUREAU OF THE CENSUS	2,506	2,506	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	1,600	400	600	-	-	-	600	-	-	-
ENERGY RESEARCH & TECHNOLOGY ADMIN 2/	895,522	68,014	150,848	138,461	100,586	357,809	28,204	42,975	-	8,625
NATIONAL BUREAU OF STANDARDS	54,990	52,472	1,595	-	773	-	150	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	133,163	97,900	4,006	-	29,418	30	1,184	300	239	86
NAT'L TELECOMM & INFORMATION ADMIN	10,091	10,091	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	67	10	-	-	-	-	-	-	-	57
DEPARTMENT OF DEFENSE, TOTAL	2,208,877	874,873	1,010,308	58,472	117,181	75,806	48,036	16,238	61	7,902
DEPARTMENT OF THE ARMY	416,378	250,129	138,914	-	15,541	1,698	7,965	595	61	1,475
DEPARTMENT OF THE NAVY	490,600	291,536	125,919	51,783	15,348	3,082	1,444	1,455	-	33
DEPARTMENT OF THE AIR FORCE	452,000	142,199	228,440	-	65,404	-	12,567	-	-	3,390
DEFENSE AGENCIES	849,899	191,009	517,035	6,689	20,888	71,026	26,060	14,188	-	3,004
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,583,537	410,166	92,734	9,662	795,561	4,998	218,990	825	34,125	16,476
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	126,354	43,210	2,806	-	64,231	-	12,007	-	3,198	902
CENTERS FOR DISEASE CONTROL	70,529	50,553	6,300	-	6,010	-	5,478	-	200	1,988
FOOD & DRUG ADMINISTRATION	72,700	58,800	4,000	-	5,800	-	4,100	-	-	-
HEALTH CARE FINANCING ADMIN	29,500	2,433	10,905	-	7,778	-	3,432	-	4,952	-
HEALTH RESOURCES ADMINISTRATION	2,488	88	-	-	2,200	-	200	-	-	-
HEALTH SERVICES ADMINISTRATION	1,220	633	-	-	-	-	-	-	-	587
HUMAN DEVELOPMENT SERVICES	35,095	2,373	1,488	-	22,441	-	4,669	-	2,179	1,945
NATIONAL INSTITUTES OF HEALTH	1,207,700	236,796	62,800	9,662	681,231	4,998	183,248	825	17,270	10,870
OFFICE OF ASST'T SECY FOR HEALTH	8,384	2,738	887	-	4,233	-	382	-	-	144
OFFICE OF THE SECRETARY	13,040	1,304	1,304	-	652	-	5,216	-	4,564	-
SOCIAL SECURITY ADMINISTRATION	16,527	11,238	2,244	-	985	-	258	-	1,762	40
DEPT OF HOUSING & URBAN DEVELOPMENT	13,001	6,917	338	-	1,209	-	3,874	-	663	-
DEPARTMENT OF THE INTERIOR, TOTAL	275,665	166,146	37,572	58	21,454	1,320	1,640	740	46,735	-
BONNEVILLE POWER ADMINISTRATION	10,459	2,757	4,879	-	475	-	-	560	1,788	-
BUREAU OF LAND MANAGEMENT	1,580	480	-	-	1,100	-	-	-	-	-
BUREAU OF MINES	56,944	25,300	25,000	-	5,444	100	1,000	100	-	-
BUREAU OF RECLAMATION	9,785	5,005	1,498	-	2,340	-	-	-	942	-
GEOLOGICAL SURVEY	104,667	94,687	3,345	-	5,835	800	-	-	-	-
NATIONAL PARK SERVICE	11,093	7,790	900	38	2,200	-	140	-	5	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,000	300	500	-	200	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	3,990	680	1,000	-	2,310	-	-	-	-	-
US FISH & WILDLIFE SERVICE	76,147	29,147	450	-	1,550	420	500	80	44,000	-
DEPARTMENT OF JUSTICE, TOTAL	14,722	1,223	3,780	-	5,250	-	3,469	-	1,000	-
DRUG ENFORCEMENT ADMINISTRATION	1,000	200	800	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,657	457	-	-	500	-	-	-	700	-
IMMIGRATION & NATURALIZATION SVC	376	47	329	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	804	4	500	-	300	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	10,885	515	2,151	-	4,450	-	3,469	-	300	-
DEPARTMENT OF LABOR, TOTAL	25,609	13,618	8,030	-	3,095	-	800	-	66	-
BUREAU OF LABOR STATISTICS	291	291	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	2,000	1,270	730	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	16,717	10,096	2,660	-	3,095	-	800	-	66	-
LABOR-MANAGEMENT SERVICES ADMIN	606	606	-	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,900	400	4,500	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	900	900	-	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	195	55	140	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,999	1,049	700	100	100	-	50	-	-	-
DEPARTMENTAL FUNDS	1,999	1,049	700	100	100	-	50	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-53. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	68,234	26,076	28,544	-	7,822	-	3,196	300	2,296	-
COAST GUARD	10,125	4,658	5,467	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	3,100	1,714	1,386	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,000	1,200	1,090	-	1,495	-	1,055	-	160	-
FEDERAL RAILROAD ADMINISTRATION	6,100	4,758	1,342	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	5,802	200	4,702	-	500	-	-	300	100	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	22,200	6,793	11,445	-	1,546	-	1,040	-	1,376	-
OFFICE OF THE SECRETARY	600	330	270	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,300	2,681	200	-	1,419	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	11,007	3,742	2,642	-	2,862	-	1,101	-	660	-
DEPARTMENT OF THE TREASURY, TOTAL	4,459	3,785	674	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,393	819	574	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,066	2,966	100	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,884	1,884	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	300	50	150	-	-	-	-	-	100	-
ENVIRONMENTAL PROTECTION AGENCY	201,900	94,489	43,005	-	37,692	-	17,852	-	7,562	1,300
FEDERAL COMMUNICATIONS COMMISSION	953	908	45	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	7,894	1,974	3,158	158	474	316	1,500	158	156	-
FEDERAL HOME LOAN BANK BOARD	1,210	1,028	122	-	60	-	-	-	-	-
FEDERAL TRADE COMMISSION	174	174	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	26,172	3,956	6,097	-	9,934	-	5,336	-	663	186
GENERAL SERVICES ADMINISTRATION	553	70	50	-	-	-	433	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	1,141	52	491	-	328	-	270	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	101,433	5,194	5,044	-	36,139	-	1,800	-	-	53,256
AGENCY FOR INTERNAT'L DEVELOPMENT ..	101,433	5,194	5,044	-	36,139	-	1,800	-	-	53,256
INTERNATIONAL TRADE COMMISSION	3,639	3,639	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	600	600	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	809,531	478,552	237,178	-	33,000	33,260	26,302	38	67	1,134
NATIONAL SCIENCE FOUNDATION	48,800	7,541	8,957	-	21,965	321	9,656	-	-	360
NUCLEAR REGULATORY COMMISSION	215,763	23,567	7,071	130,128	4,200	30,975	1,082	17,685	160	895
OFFICE OF PERSONNEL MANAGEMENT	2,807	2,182	80	-	545	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	13,900	7,624	-	-	-	-	6,276	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	570	20	160	-	25	100	220	45	-	-
VETERANS ADMINISTRATION	107,600	106,753	172	-	285	-	390	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	7,499,674	2,861,173	1,753,603	320,140	1,371,259	516,794	391,590	84,071	108,280	92,764
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	449,057	288,044	9,214	-	147,704	-	537	-	1,179	2,379
AGRICULTURAL COOPERATIVE SERVICE	1,436	1,336	100	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	206,690	178,276	6,080	-	20,494	-	364	-	571	905
COOPERATIVE STATE RESEARCH SERVICE	126,868	4,127	-	-	122,274	-	-	-	467	-
ECONOMIC RESEARCH SERVICE	36,960	36,622	-	-	338	-	-	-	-	-
FOREST SERVICE	59,285	56,300	34	-	2,592	-	73	-	141	45
HUMAN NUTRITION INFORMATION SERVICE	7,600	2,800	3,000	-	1,800	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	1,880	451	-	-	-	-	-	-	-	1,429
OFFICE OF TRANSPORTATION	338	338	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	8,000	7,794	-	-	206	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	928,764	203,484	77,815	118,090	93,400	367,342	28,002	31,363	333	8,935
BUREAU OF THE CENSUS	2,579	2,579	-	-	-	-	-	-	-	-
ENERGY RESEARCH & TECHNOLOGY ADMIN 2/	760,449	56,622	71,315	118,090	80,753	366,842	26,559	31,363	-	8,905
NATIONAL BUREAU OF STANDARDS	54,713	50,845	2,095	-	1,773	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	103,140	85,555	4,405	-	10,874	500	1,443	-	333	30
NAT'L TELECOMM & INFORMATION ADMIN	7,883	7,883	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,543,926	964,894	1,187,672	61,408	156,733	77,755	47,478	37,180	73	10,733
DEPARTMENT OF THE ARMY	505,037	281,426	185,522	-	20,600	2,551	11,118	1,630	73	2,117
DEPARTMENT OF THE NAVY	546,300	323,514	141,112	56,906	17,311	4,420	1,459	1,498	-	80
DEPARTMENT OF THE AIR FORCE	542,000	170,513	273,926	-	78,427	-	15,067	-	-	4,067
DEFENSE AGENCIES	950,589	189,441	587,112	4,502	40,395	70,784	19,834	34,052	-	4,469
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,660,933	432,198	97,818	11,246	816,860	5,098	235,341	868	45,071	16,433
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	151,556	51,598	3,371	-	73,940	-	17,775	-	3,891	981
CENTERS FOR DISEASE CONTROL	72,019	53,982	4,000	-	6,400	-	5,357	-	200	2,080
FOOD & DRUG ADMINISTRATION	74,700	60,000	4,500	-	6,000	-	4,200	-	-	-
HEALTH CARE FINANCING ADMIN	30,000	2,474	11,090	-	7,910	-	3,490	-	5,036	-
HEALTH SERVICES ADMINISTRATION	1,165	600	-	-	-	-	-	-	-	565
HUMAN DEVELOPMENT SERVICES	39,211	1,879	500	-	21,111	-	4,344	-	9,904	1,473
NATIONAL INSTITUTES OF HEALTH	1,249,600	246,095	67,478	11,246	695,510	5,098	193,313	868	18,869	11,123
OFFICE OF ASST'T SECY FOR HEALTH	8,489	2,388	802	-	4,743	-	345	-	-	211
OFFICE OF THE SECRETARY	14,418	1,442	1,442	-	721	-	5,767	-	5,046	-
SOCIAL SECURITY ADMINISTRATION	19,775	11,740	4,635	-	525	-	750	-	2,125	-
DEPT OF HOUSING & URBAN DEVELOPMENT	12,426	6,611	323	-	1,156	-	3,713	-	623	-
DEPARTMENT OF THE INTERIOR, TOTAL	251,014	158,195	26,831	58	14,093	1,350	1,670	200	48,617	-
BONNEVILLE POWER ADMINISTRATION	10,865	2,277	4,707	-	863	-	-	-	3,018	-
BUREAU OF LAND MANAGEMENT	2,224	2,024	-	-	200	-	-	-	-	-
BUREAU OF MINES	44,400	24,800	17,000	-	1,400	100	1,000	100	-	-
BUREAU OF RECLAMATION	9,162	6,438	1,160	-	1,420	-	-	-	144	-
GEOLOGICAL SURVEY	99,463	91,119	1,774	-	5,770	800	-	-	-	-
NATIONAL PARK SERVICE	10,806	7,503	900	58	2,200	-	140	-	5	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,500	470	790	-	240	-	-	-	-	-
US FISH & WILDLIFE SERVICE	72,594	23,564	500	-	2,000	450	530	100	45,450	-
DEPARTMENT OF JUSTICE, TOTAL	11,528	1,063	2,978	-	3,300	-	3,000	-	1,187	-
DRUG ENFORCEMENT ADMINISTRATION	600	200	400	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	1,657	457	-	-	500	-	-	-	700	-
IMMIGRATION & NATURALIZATION SVC	200	47	153	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	709	9	500	-	200	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	8,362	350	1,925	-	2,600	-	3,000	-	487	-
DEPARTMENT OF LABOR, TOTAL	9,441	3,616	5,825	-	-	-	-	-	-	-
BUREAU OF LABOR STATISTICS	315	315	-	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	1,900	1,375	525	-	-	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	626	626	-	-	-	-	-	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	5,700	400	5,300	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	900	900	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	1,755	940	565	50	100	-	50	50	-	-
DEPARTMENTAL FUNDS	1,755	940	565	50	100	-	50	50	-	-

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TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	72,635	23,014	36,084	-	7,054	-	4,005	-	2,478	-
COAST GUARD	8,175	4,169	4,006	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	8,000	1,985	6,015	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,200	1,248	1,134	-	1,555	-	1,097	-	166	-
FEDERAL RAILROAD ADMINISTRATION	3,400	2,652	748	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	12,060	500	10,020	-	140	-	1,000	-	400	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	22,600	6,915	11,651	-	1,574	-	1,058	-	1,402	-
OFFICE OF THE SECRETARY	600	330	270	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,100	2,325	200	-	1,575	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	8,500	2,890	2,040	-	2,210	-	850	-	510	-
DEPARTMENT OF THE TREASURY, TOTAL	6,606	5,595	1,011	-	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,781	1,620	161	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	4,825	3,975	850	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,925	1,925	-	-	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	181	31	150	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	150,000	70,200	32,200	-	21,875	-	17,225	-	7,300	1,200
FEDERAL COMMUNICATIONS COMMISSION	654	604	50	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	18,074	4,519	7,230	361	1,084	723	3,434	362	361	-
FEDERAL HOME LOAN BANK BOARD	1,497	1,095	333	-	69	-	-	-	-	-
FEDERAL TRADE COMMISSION	195	195	-	-	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	29,128	3,983	5,044	-	12,804	-	6,351	-	776	170
GENERAL SERVICES ADMINISTRATION	1,480	225	250	-	-	-	1,005	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	150	150	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	91,544	4,300	3,944	-	30,955	-	1,650	-	-	50,695
AGENCY FOR INTERNAT'L DEVELOPMENT ..	91,544	4,300	3,944	-	30,955	-	1,650	-	-	50,695
INTERNATIONAL TRADE COMMISSION	3,994	3,994	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	600	600	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	854,509	520,261	234,575	-	33,000	36,109	29,325	38	67	1,134
NATIONAL SCIENCE FOUNDATION	49,558	6,310	9,952	-	25,714	120	7,292	-	-	170
NUCLEAR REGULATORY COMMISSION	213,525	22,650	13,419	128,927	4,547	28,152	840	13,860	215	915
OFFICE OF PERSONNEL MANAGEMENT	2,223	1,729	70	-	424	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	17,700	17,700	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	952	85	250	-	50	145	272	150	-	-
VETERANS ADMINISTRATION	113,700	112,963	-	-	337	-	400	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-55. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1981	ESTIMATES	
		1982	1983
TOTAL, ALL FIELDS	7,171,485	7,284,134	7,499,674
LIFE SCIENCES, TOTAL	2 211,792	2,263,058	2,306,691
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	794,949	815,263	827,837
ENVIRONMENTAL BIOLOGY	137,017	137,686	131,004
AGRICULTURAL	317,430	332,989	332,549
MEDICAL	903,725	916,903	959,012
LIFE SCIENCES, NEC	58,671	60,217	56,289
PSYCHOLOGY, TOTAL	117,906	122,515	158,023
BIOLOGICAL ASPECTS	26,966	27,476	34,453
SOCIAL ASPECTS	63,277	65,284	82,057
PSYCHOLOGICAL SCIENCES, NEC	27,663	29,755	41,513
PHYSICAL SCIENCES, TOTAL	895,594	1,078,037	1,195,944
ASTRONOMY	6,800	7,115	7,005
CHEMISTRY	188,689	322,525	184,097
PHYSICS	610,221	618,027	857,180
PHYSICAL SCIENCES, NEC	89,884	130,370	147,662
ENVIRONMENTAL SCIENCES, TOTAL	588,247	569,044	538,335
ATMOSPHERIC	199,603	209,018	201,369
GEOLOGICAL	201,877	191,464	187,596
OCEANOGRAPHY	118,390	99,376	79,443
ENVIRONMENTAL SCIENCES, NEC	68,377	69,186	69,927
MATHEMATICS & COMPUTER SCIENCES, TOTAL	138,565	145,643	170,992
MATHEMATICS	38,552	39,727	48,543
COMPUTER SCIENCES	69,315	75,514	91,512
MATHEMATICS & COMPUTER SCIENCES, NEC	30,698	30,402	30,937
ENGINEERING, TOTAL	2,545,436	2,549,006	2,516,938
AERONAUTICAL	596,293	539,312	548,942
ASTRONAUTICAL	270,757	269,412	288,368
CHEMICAL	116,294	114,301	103,468
CIVIL	135,750	137,325	113,523
ELECTRICAL	478,166	483,252	520,543
MECHANICAL	157,268	146,038	165,680
METALLURGY & MATERIALS	117,492	137,131	138,839
ENGINEERING, NEC	673,416	722,235	637,575
SOCIAL SCIENCES, TOTAL	360,476	284,284	273,455
ANTHROPOLOGY	1,459	1,277	1,131
ECONOMICS	172,610	134,477	118,616
POLITICAL SCIENCE	4,481	4,093	3,783
SOCIOLOGY	42,397	32,193	33,375
SOCIAL SCIENCES, NEC	139,529	112,244	116,550
OTHER SCIENCES, NEC	313,469	272,547	339,296

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-56. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	7,171,485	2,211,792	117,906	895,594	588,247	138,565	2,545,436	360,476	313,469
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	426,856	274,156	-	25,024	10,421	16,079	34,161	67,015	-
AGRICULTURAL COOPERATIVE SERVICE	1,739	-	-	-	-	-	-	1,739	-
AGRICULTURAL MARKETING SERVICE	907	907	-	-	-	-	-	-	-
AGICULTURAL RESEARCH SERVICE	181,486	140,676	-	16,221	1,439	1,050	20,634	1,466	-
COOPERATIVE RESEARCH SERVICE	115,531	79,385	-	5,777	723	-	3,960	25,686	-
ECONOMIC RESEARCH SERVICE	35,759	-	-	-	-	6,057	-	29,702	-
FOREST SERVICE	81,768	51,022	-	3,026	8,259	1,472	9,567	8,422	-
OFF OF INTERNAT'L COOPERATION & DEV	1,858	1,858	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	308	308	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,500	-	-	-	-	7,500	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,060,436	171,842	219	420,709	176,908	13,463	243,011	8,037	26,247
BUREAU OF THE CENSUS	2,578	-	219	-	-	1,650	-	648	61
ECONOMIC DEVELOPMENT ADMINISTRATION	1,600	-	-	-	-	-	-	1,600	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	827,265	115,858	-	390,165	73,254	3,500	216,338	3,950	24,200
NATIONAL BUREAU OF STANDARDS	50,640	-	-	24,417	472	6,230	17,916	1,605	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	168,496	55,831	-	6,127	103,182	943	2,193	220	-
NAT'L TELECOMM & INFORMATION ADMIN	9,857	153	-	-	-	1,140	6,564	14	1,986
DEPARTMENT OF DEFENSE, TOTAL	1,996,615	117,443	52,385	335,188	107,066	88,160	1,135,983	765	159,625
DEPARTMENT OF THE ARMY	388,366	63,326	22,207	58,553	10,755	7,127	221,563	765	4,070
DEPARTMENT OF THE NAVY	460,000	7,025	9,584	98,523	19,725	24,268	300,875	-	-
DEPARTMENT OF THE AIR FORCE	491,500	35,831	18,241	49,721	32,586	26,332	328,114	-	675
DEFENSE AGENCIES	656,749	11,261	2,353	128,391	44,000	30,433	285,431	-	154,880
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,591,857	1,264,044	51,178	25,062	-	4,637	20,518	133,717	92,701
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	121,375	63,460	37,173	232	-	-	49	17,079	3,382
CENTERS FOR DISEASE CONTROL	74,822	74,822	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	71,400	71,400	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	38,623	-	-	-	-	-	-	38,623	-
HEALTH RESOURCES ADMINISTRATION	5,038	-	-	-	-	-	-	-	5,038
HEALTH SERVICES ADMINISTRATION	6,436	6,006	-	-	-	-	-	-	430
HUMAN DEVELOPMENT SERVICES	39,451	13,229	1,763	-	-	-	5,065	19,394	-
NATIONAL INSTITUTES OF HEALTH	1,181,521	1,035,127	12,242	24,830	-	4,299	404	5,768	83,851
OFFICE OF ASST'T SECY FOR HEALTH	16,313	-	-	-	-	338	-	15,975	-
OFFICE OF THE SECRETARY	18,900	-	-	-	-	-	-	18,900	-
SOCIAL SECURITY ADMINISTRATION	17,978	-	-	-	-	-	-	17,978	-
DEPT OF HOUSING & URBAN DEVELOPMENT	16,690	-	-	-	-	-	1,829	14,861	-
DEPARTMENT OF THE INTERIOR, TOTAL	289,174	87,548	-	7,274	125,255	4,533	61,017	3,537	10
BONNEVILLE POWER ADMINISTRATION	6,071	2,262	-	-	-	-	3,809	-	-
BUREAU OF LAND MANAGEMENT	1,458	1,248	-	-	135	-	-	75	-
BUREAU OF MINES	54,400	-	-	700	9,100	2,800	41,800	-	-
BUREAU OF RECLAMATION	13,269	319	-	-	9,065	-	3,750	135	-
GEOLOGICAL SURVEY	115,784	-	-	5,000	102,434	1,400	6,950	-	-
NATIONAL PARK SERVICE	10,351	6,592	-	241	1,982	3	43	1,480	10
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	5,794	1,200	-	603	989	-	2,215	787	-
OFFICE OF WATER RSCH & TECHNOLOGY	8,160	2,040	-	730	1,550	330	2,450	1,060	-
US FISH & WILDLIFE SERVICE	73,887	73,887	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	14,872	-	2,434	-	-	100	370	11,968	-
DRUG ENFORCEMENT ADMINISTRATION	400	-	-	-	-	100	300	-	-
FEDERAL PRISON SYSTEM	1,657	-	350	-	-	-	-	1,307	-
IMMIGRATION & NATURALIZATION SVC	70	-	-	-	-	-	70	-	-
OFFICE OF THE ATTORNEY GENERAL	700	-	-	-	-	-	-	700	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	12,045	-	2,084	-	-	-	-	9,961	-
DEPARTMENT OF LABOR, TOTAL	54,457	-	-	-	-	-	-	54,457	-
BUREAU OF LABOR STATISTICS	251	-	-	-	-	-	-	251	-
EMPLOYMENT STANDARDS ADMINISTRATION	3,200	-	-	-	-	-	-	3,200	-
EMPLOYMENT & TRAINING ADMIN	45,054	-	-	-	-	-	-	45,054	-
LABOR-MANAGEMENT SERVICES ADMIN	1,752	-	-	-	-	-	-	1,752	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	3,000	-	-	-	-	-	-	3,000	-
OFFICE OF THE SECRETARY	1,100	-	-	-	-	-	-	1,100	-
PENSION BENEFIT GUARANTEE CORPORATION	100	-	-	-	-	-	-	100	-
DEPARTMENT OF STATE, TOTAL	1,606	-	-	-	220	-	-	1,386	-
DEPARTMENTAL FUNDS	1,606	-	-	-	220	-	-	1,386	-

CONTINUED ON NEXT PAGE

TABLE C-56. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	87,379	5,174	-	148	138	1,193	56,182	15,096	9,448
COAST GUARD	14,703	-	-	-	-	-	5,383	-	9,320
FEDERAL AVIATION ADMINISTRATION	8,200	-	-	-	-	-	8,200	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,100	-	-	148	138	60	4,626	-	128
FEDERAL RAILROAD ADMINISTRATION	6,200	-	-	-	-	23	6,168	9	-
MARITIME ADMINISTRATION	8,876	-	-	-	-	355	8,121	400	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	29,400	5,174	-	-	-	-	11,848	12,378	-
OFFICE OF THE SECRETARY	700	-	-	-	-	-	300	400	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,900	-	-	-	-	755	2,236	1,909	-
URBAN MASS TRANSPORTATION ADMIN	9,300	-	-	-	-	-	9,300	-	-
DEPARTMENT OF THE TREASURY, TOTAL	2,875	-	-	1,011	-	672	-	245	947
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	100	-	-	50	-	-	-	-	50
BUREAU OF ENGRAVING AND PRINTING ...	907	-	-	907	-	-	-	-	-
INTERNAL REVENUE SERVICE	1,814	-	-	-	-	672	-	245	897
UNITED STATES CUSTOMS SERVICE	54	-	-	54	-	-	-	-	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,211	-	-	-	-	-	-	2,211	-
APPALACHIAN REGIONAL COMMISSION	280	-	-	-	-	-	-	280	-
COMMUNITY SERVICES ADMINISTRATION	1,927	-	-	-	-	-	-	1,927	-
CONSUMER PRODUCT SAFETY COMMISSION ...	150	-	-	-	-	-	150	-	-
ENVIRONMENTAL PROTECTION AGENCY	207,800	60,533	-	66,420	3,618	-	77,229	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,815	-	-	-	-	-	1,259	484	72
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	6,449	401	135	1,264	30	436	2,914	704	565
FEDERAL HOME LOAN BANK BOARD	1,036	-	-	-	-	-	-	1,036	-
FEDERAL TRADE COMMISSION	165	-	-	-	-	-	-	165	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	33,212	-	-	-	-	-	-	24,124	9,088
GENERAL SERVICES ADMINISTRATION	390	-	-	-	-	72	318	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	1,012	-	-	-	-	-	125	887	-
INTERNAT'L DEV COOPERATION AGENCY	86,400	74,869	-	-	51	931	6,947	3,100	502
AGENCY FOR INTERNAT'L DEVELOPMENT ..	86,400	74,869	-	-	51	931	6,947	3,100	502
INTERNATIONAL TRADE COMMISSION	3,397	-	-	-	-	-	-	3,397	-
LIBRARY OF CONGRESS	700	-	-	-	-	-	-	-	700
NATIONAL AERONAUTICS & SPACE ADMIN ...	876,036	45,980	1,134	11,271	162,428	2,025	652,026	-	1,172
NATIONAL SCIENCE FOUNDATION	58,895	4,205	1,266	2,223	1,794	5,844	20,783	10,388	12,392
NUCLEAR REGULATORY COMMISSION	219,667	-	-	-	-	-	219,667	-	-
OFFICE OF PERSONNEL MANAGEMENT	3,387	-	3,143	-	-	-	-	244	-
TENNESSEE VALLEY AUTHORITY	9,400	1,800	-	-	-	-	7,600	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1,639	-	-	-	318	420	456	445	-
VETERANS ADMINISTRATION	112,700	103,797	6,012	-	-	-	2,891	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-57. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	7,284,134	2,263,058	122,515	1,078,037	569,044	145,643	2,549,006	284,284	272,547
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	443,268	291,292	-	26,382	9,083	15,423	32,884	68,204	-
AGRICULTURAL COOPERATIVE SERVICE	1,808	-	-	-	-	-	-	1,808	-
AGRICULTURAL MARKETING SERVICE	1,177	1,177	-	-	-	-	-	-	-
AGICULTURAL RESEARCH SERVICE	189,608	148,467	-	17,407	1,419	844	20,513	958	-
COOPERATIVE RESEARCH SERVICE	129,289	88,839	-	6,464	810	-	4,432	28,744	-
ECONOMIC RESEARCH SERVICE	35,762	-	-	-	-	6,058	-	29,704	-
FOREST SERVICE	67,857	42,342	-	2,511	6,854	1,221	7,939	6,990	-
HUMAN NUTRITION INFORMATION SERVICE	8,500	8,200	-	-	-	300	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	1,922	1,922	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	345	345	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,000	-	-	-	-	7,000	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,097,939	163,388	212	437,882	158,705	15,363	293,761	6,634	21,994
BUREAU OF THE CENSUS	2,506	-	212	-	-	1,604	-	630	60
ECONOMIC DEVELOPMENT ADMINISTRATION	1,600	-	-	-	-	-	-	1,600	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	895,522	122,604	-	407,828	74,823	3,000	264,467	3,000	19,800
NATIONAL BUREAU OF STANDARDS	54,990	-	-	24,072	600	7,954	21,583	781	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	133,163	40,650	-	5,982	83,282	1,045	1,611	593	-
NAT'L TELECOMM & INFORMATION ADMIN	10,091	134	-	-	-	1,760	6,100	30	2,067
OFFICE OF THE SECRETARY	67	-	-	-	-	-	-	-	67
DEPARTMENT OF DEFENSE, TOTAL	2,208,877	130,156	57,559	506,684	114,221	94,725	1,168,325	841	136,366
DEPARTMENT OF THE ARMY	416,378	72,462	25,506	75,749	11,404	6,891	219,141	841	4,384
DEPARTMENT OF THE NAVY	490,600	7,329	11,401	129,155	20,119	17,853	304,743	-	-
DEPARTMENT OF THE AIR FORCE	452,000	36,100	18,355	50,068	32,285	24,812	289,330	-	1,050
DEFENSE AGENCIES	849,899	14,265	2,297	251,712	50,413	45,169	355,111	-	130,932
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,583,537	1,282,100	53,883	25,625	-	4,697	20,841	103,624	92,767
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	126,354	66,729	39,438	245	-	-	147	15,845	3,950
CENTERS FOR DISEASE CONTROL	70,529	70,529	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	72,700	72,700	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	29,500	-	-	-	-	-	-	29,500	-
HEALTH RESOURCES ADMINISTRATION	2,488	-	-	-	-	-	-	-	2,488
HEALTH SERVICES ADMINISTRATION	1,220	600	-	-	-	-	-	-	620
HUMAN DEVELOPMENT SERVICES	35,095	13,479	1,932	-	-	-	4,949	14,735	-
NATIONAL INSTITUTES OF HEALTH	1,207,700	1,058,063	12,513	25,380	-	4,394	15,745	5,896	85,709
OFFICE OF ASST'T SECY FOR HEALTH	8,384	-	-	-	-	303	-	8,081	-
OFFICE OF THE SECRETARY	13,040	-	-	-	-	-	-	13,040	-
SOCIAL SECURITY ADMINISTRATION	16,527	-	-	-	-	-	-	16,527	-
DEPT OF HOUSING & URBAN DEVELOPMENT	13,001	-	-	-	-	-	367	12,634	-
DEPARTMENT OF THE INTERIOR, TOTAL	275,665	89,306	-	5,437	113,154	4,188	61,721	1,849	10
BONNEVILLE POWER ADMINISTRATION	10,459	4,000	-	-	-	-	6,459	-	-
BUREAU OF LAND MANAGEMENT	1,580	1,280	-	-	300	-	-	-	-
BUREAU OF MINES	56,944	-	-	1,100	10,344	2,500	43,000	-	-
BUREAU OF RECLAMATION	9,785	380	-	-	5,638	-	3,702	65	-
GEOLOGICAL SURVEY	104,667	-	-	3,975	92,780	1,495	6,417	-	-
NATIONAL PARK SERVICE	11,093	6,469	-	62	3,082	3	63	1,404	10
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,000	300	-	80	180	80	300	60	-
OFFICE OF WATER RSCH & TECHNOLOGY	3,990	730	-	220	830	110	1,780	320	-
US FISH & WILDLIFE SERVICE	76,147	76,147	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	14,722	-	1,638	200	-	-	1,176	11,708	-
DRUG ENFORCEMENT ADMINISTRATION	1,000	-	-	200	-	-	800	-	-
FEDERAL PRISON SYSTEM	1,657	-	350	-	-	-	-	1,307	-
IMMIGRATION & NATURALIZATION SVC	376	-	-	-	-	-	376	-	-
OFFICE OF THE ATTORNEY GENERAL	804	-	-	-	-	-	-	804	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	10,885	-	1,288	-	-	-	-	9,597	-
DEPARTMENT OF LABOR, TOTAL	25,609	-	-	-	-	-	-	25,609	-
BUREAU OF LABOR STATISTICS	291	-	-	-	-	-	-	291	-
EMPLOYMENT STANDARDS ADMINISTRATION	2,000	-	-	-	-	-	-	2,000	-
EMPLOYMENT & TRAINING ADMIN	16,717	-	-	-	-	-	-	16,717	-
LABOR-MANAGEMENT SERVICES ADMIN	606	-	-	-	-	-	-	606	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	4,900	-	-	-	-	-	-	4,900	-
OFFICE OF THE SECRETARY	900	-	-	-	-	-	-	900	-
PENSION BENEFIT GUARANTEE CORPORATION	195	-	-	-	-	-	-	195	-
DEPARTMENT OF STATE, TOTAL	1,999	-	-	-	140	-	-	1,859	-
DEPARTMENTAL FUNDS	1,999	-	-	-	140	-	-	1,859	-

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TABLE C-57. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	68,234	5,214	-	105	110	1,241	44,820	11,644	5,100
COAST GUARD	10,125	1,328	-	-	-	-	3,707	-	5,090
FEDERAL AVIATION ADMINISTRATION	3,100	-	-	-	-	-	3,100	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,000	-	-	105	110	155	4,620	-	10
FEDERAL RAILROAD ADMINISTRATION	6,100	-	-	-	-	23	6,069	8	-
MARITIME ADMINISTRATION	5,802	-	-	-	-	400	5,202	200	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	22,200	3,886	-	-	-	-	8,953	9,361	-
OFFICE OF THE SECRETARY	600	-	-	-	-	-	200	400	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,300	-	-	-	-	663	1,962	1,675	-
URBAN MASS TRANSPORTATION ADMIN	11,007	-	-	-	-	-	11,007	-	-
DEPARTMENT OF THE TREASURY, TOTAL	4,459	-	-	1,393	-	1,809	-	1,257	-
BUREAU OF ENGRAVING AND PRINTING ...	1,393	-	-	1,393	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,066	-	-	-	-	1,809	-	1,257	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,884	-	-	-	-	-	-	1,884	-
APPALACHIAN REGIONAL COMMISSION	300	-	-	-	-	-	-	300	-
ENVIRONMENTAL PROTECTION AGENCY	201,900	65,049	-	61,481	3,879	-	71,491	-	-
FEDERAL COMMUNICATIONS COMMISSION	953	-	-	-	-	-	524	332	97
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	7,894	553	1[illegible]	1,579	79	553	3,473	789	710
FEDERAL HOME LOAN BANK BOARD	1,210	-	-	-	-	-	-	1,210	-
FEDERAL TRADE COMMISSION	174	-	-	-	-	-	-	174	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	26,172	-	-	-	-	-	-	20,885	5,287
GENERAL SERVICES ADMINISTRATION	553	-	-	-	-	400	153	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	1,141	-	-	-	-	-	499	642	-
INTERNAT'L DEV COOPERATION AGENCY	101,433	88,542	-	-	200	350	9,441	2,900	-
AGENCY FOR INTERNAT'L DEVELOPMENT ..	101,433	88,542	-	-	200	350	9,441	2,900	-
INTERNATIONAL TRADE COMMISSION	3,639	-	-	-	-	-	-	3,639	-
LIBRARY OF CONGRESS	600	-	-	-	-	-	-	-	600
NATIONAL AERONAUTICS & SPACE ADMIN ...	809,531	39,927	1,095	9,000	167,744	2,311	588,354	-	1,100
NATIONAL SCIENCE FOUNDATION	48,800	5,868	255	2,269	1,621	4,435	20,324	5,512	8,516
NUCLEAR REGULATORY COMMISSION	215,763	-	-	-	-	-	215,763	-	-
OFFICE OF PERSONNEL MANAGEMENT	2,807	-	2,807	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	13,900	1,700	-	-	-	-	12,200	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	570	-	-	-	108	148	160	154	-
VETERANS ADMINISTRATION	107,600	99,963	4,908	-	-	-	2,729	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-58. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	7,499,674	2,306,691	158,023	1,195,944	538,335	170,992	2,516,938	273,455	339,296
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	449,057	295,531	-	27,512	8,329	16,548	33,646	67,491	-
AGRICULTURAL COOPERATIVE SERVICE	1,436	-	-	-	-	-	-	1,436	-
AGICULTURAL RESEARCH SERVICE	206,690	161,843	-	18,975	1,547	920	22,361	1,044	-
COOPERATIVE RESEARCH SERVICE	126,868	87,176	-	6,343	794	-	4,349	28,206	-
ECONOMIC RESEARCH SERVICE	36,960	-	-	-	-	6,261	-	30,699	-
FOREST SERVICE	59,285	36,994	-	2,194	5,988	1,067	6,936	6,106	-
HUMAN NUTRITION INFORMATION SERVICE	7,600	7,300	-	-	-	300	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	1,880	1,880	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	338	338	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	8,000	-	-	-	-	8,000	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	928,764	134,884	218	483,175	121,628	13,910	159,158	3,566	12,225
BUREAU OF THE CENSUS	2,579	-	218	-	-	1,651	-	648	62
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	760,449	102,204	-	451,898	60,245	2,100	131,902	1,700	10,400
NATIONAL BUREAU OF STANDARDS	54,713	-	-	25,000	377	7,747	20,787	802	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	103,140	32,680	-	6,277	61,006	1,096	1,681	400	-
NAT'L TELECOMM & INFORMATION ADMIN	7,883	-	-	-	-	1,316	4,788	16	1,763
DEPARTMENT OF DEFENSE, TOTAL	2,543,926	149,132	81,958	599,333	120,045	120,223	1,266,233	980	206,012
DEPARTMENT OF THE ARMY	505,037	85,152	43,084	78,869	10,476	7,837	265,569	980	13,070
DEPARTMENT OF THE NAVY	546,300	6,235	12,945	149,910	17,920	18,922	340,368	-	-
DEPARTMENT OF THE AIR FORCE	542,000	43,039	25,799	55,743	33,680	29,411	348,177	-	1,151
DEFENSE AGENCIES	950,589	14,706	130	314,811	52,979	64,053	312,119	-	191,791
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,660,933	1,333,109	60,376	27,846	-	4,914	20,928	117,395	96,365
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	151,556	18,698	45,704	1,585	-	100	48	18,303	7,118
CENTERS FOR DISEASE CONTROL	72,019	72,019	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	74,700	74,700	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	30,000	-	-	-	-	-	-	30,000	-
HEALTH SERVICES ADMINISTRATION	1,165	600	-	-	-	-	-	-	565
HUMAN DEVELOPMENT SERVICES	39,211	12,321	1,725	-	-	-	4,588	20,577	-
NATIONAL INSTITUTES OF HEALTH	1,249,600	1,094,771	12,947	26,261	-	4,547	16,292	6,100	88,682
OFFICE OF ASST'T SECY FOR HEALTH	8,489	-	-	-	-	267	-	8,222	-
OFFICE OF THE SECRETARY	14,418	-	-	-	-	-	-	14,418	-
SOCIAL SECURITY ADMINISTRATION	19,775	-	-	-	-	-	-	19,775	-
DEPT OF HOUSING & URBAN DEVELOPMENT	12,426	-	-	-	-	-	510	11,916	-
DEPARTMENT OF THE INTERIOR, TOTAL	251,014	87,041	-	5,533	99,789	3,523	53,736	1,382	10
BONNEVILLE POWER ADMINISTRATION	10,865	5,100	-	-	-	-	5,765	-	-
BUREAU OF LAND MANAGEMENT	2,224	1,974	-	-	250	-	-	-	-
BUREAU OF MINES	44,400	-	-	1,100	4,100	1,900	37,300	-	-
BUREAU OF RECLAMATION	9,162	323	-	-	4,473	-	4,280	86	-
GEOLOGICAL SURVEY	99,463	-	-	4,300	87,744	1,560	5,859	-	-
NATIONAL PARK SERVICE	10,806	6,425	-	63	3,022	3	57	1,226	10
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,500	625	-	70	200	60	475	70	-
US FISH & WILDLIFE SERVICE	72,594	72,594	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	11,528	-	2,500	200	-	-	600	8,228	-
DRUG ENFORCEMENT ADMINISTRATION	600	-	-	200	-	-	400	-	-
FEDERAL PRISON SYSTEM	1,657	-	350	-	-	-	-	1,307	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	-	200	-	-
OFFICE OF THE ATTORNEY GENERAL	709	-	-	-	-	-	-	709	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	8,362	-	2,150	-	-	-	-	6,212	-
DEPARTMENT OF LABOR, TOTAL	9,441	-	-	-	-	-	-	9,441	-
BUREAU OF LABOR STATISTICS	315	-	-	-	-	-	-	315	-
EMPLOYMENT STANDARDS ADMINISTRATION	1,900	-	-	-	-	-	-	1,900	-
LABOR-MANAGEMENT SERVICES ADMIN	626	-	-	-	-	-	-	626	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	5,700	-	-	-	-	-	-	5,700	-
OFFICE OF THE SECRETARY	900	-	-	-	-	-	-	900	-
DEPARTMENT OF STATE, TOTAL	1,755	-	-	-	140	-	-	1,615	-
DEPARTMENTAL FUNDS	1,755	-	-	-	140	-	-	1,615	-

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TABLE C-58. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	72,635	5,102	-	94	135	1,144	51,145	12,039	2,976
COAST GUARD	8,175	1,146	-	-	-	-	4,089	-	2,940
FEDERAL AVIATION ADMINISTRATION	8,000	-	-	-	-	-	8,000	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,200	-	-	94	135	-	4,935	-	36
FEDERAL RAILROAD ADMINISTRATION	3,400	-	-	-	-	12	3,383	5	-
MARITIME ADMINISTRATION	12,060	-	-	-	-	500	11,100	460	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	22,600	3,956	-	-	-	-	9,117	9,527	-
OFFICE OF THE SECRETARY	600	-	-	-	-	-	150	450	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,100	-	-	-	-	632	1,871	1,597	-
URBAN MASS TRANSPORTATION ADMIN	8,500	-	-	-	-	-	8,500	-	-
DEPARTMENT OF THE TREASURY, TOTAL	6,606	-	-	1,781	-	2,814	-	2,011	-
BUREAU OF ENGRAVING AND PRINTING ...	1,781	-	-	1,781	-	-	-	-	-
INTERNAL REVENUE SERVICE	4,825	-	-	-	-	2,814	-	2,011	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,925	-	-	-	-	-	-	1,925	-
CONSUMER PRODUCT SAFETY COMMISSION ...	181	181	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	150,000	60,077	-	34,253	1,067	-	54,603	-	-
FEDERAL COMMUNICATIONS COMMISSION	654	-	-	-	-	-	429	154	71
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	18,074	1,446	542	4,609	181	904	5,873	2,531	1,988
FEDERAL HOME LOAN BANK BOARD	1,497	-	-	-	-	-	-	1,497	-
FEDERAL TRADE COMMISSION	195	-	-	-	-	-	-	195	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	29,128	-	-	-	-	-	-	20,081	9,047
GENERAL SERVICES ADMINISTRATION	1,480	-	-	-	-	970	510	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	150	-	-	-	-	-	150	-	-
INTERNAT'L DEV COOPERATION AGENCY	91,544	81,999	-	-	160	530	8,105	750	-
AGENCY FOR INTERNAT'L DEVELOPMENT ..	91,544	81,999	-	-	160	530	8,105	750	-
INTERNATIONAL TRADE COMMISSION	3,994	-	-	-	-	-	-	3,994	-
LIBRARY OF CONGRESS	600	-	-	-	-	-	-	-	600
NATIONAL AERONAUTICS & SPACE ADMIN ...	854,509	47,853	1,479	9,000	184,973	3,330	606,774	-	1,100
NATIONAL SCIENCE FOUNDATION	49,558	5,974	249	2,608	1,713	1,977	22,131	6,004	8,902
NUCLEAR REGULATORY COMMISSION	213,525	-	-	-	-	-	213,525	-	-
OFFICE OF PERSONNEL MANAGEMENT	2,223	-	2,223	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	17,700	2,600	-	-	-	-	15,100	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	952	-	-	-	165	205	322	260	-
VETERANS ADMINISTRATION	113,700	101,762	8,478	-	-	-	3,460	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-59. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	117,906	26,966	63,277	27,663	2,211,792	794,949	137,017	317,430	903,725	58,671
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	274,156	27,631	43,705	195,574	7,246	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	907	-	-	907	-	-
AGICULTURAL RESEARCH SERVICE	-	-	-	-	140,676	5,548	6,665	126,445	2,018	-
COOPERATIVE RESEARCH SERVICE	-	-	-	-	79,385	8,101	-	66,056	5,228	-
FOREST SERVICE	-	-	-	-	51,022	13,982	37,040	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	1,858	-	-	1,858	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	308	-	-	308	-	-
DEPARTMENT OF COMMERCE, TOTAL	219	-	219	-	171,842	70,637	531	55,300	20,405	24,969
BUREAU OF THE CENSUS	219	-	219	-	-	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	-	-	-	-	115,858	70,484	-	-	20,405	24,969
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	55,831	-	531	55,300	-	-
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	153	153	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	52,385	-	43,168	9,217	117,443	47,693	3,643	248	65,761	98
DEPARTMENT OF THE ARMY	22,207	-	22,207	-	63,326	2,551	2,008	248	58,478	41
DEPARTMENT OF THE NAVY	9,584	-	455	9,129	7,025	155	298	-	6,572	-
DEPARTMENT OF THE AIR FORCE	18,241	-	18,241	-	35,831	33,783	1,337	-	711	-
DEFENSE AGENCIES	2,353	-	2,265	88	11,261	11,204	-	-	-	57
DEPT OF HLTH & HUMAN SERVICES, TOTAL	51,178	20,398	12,554	18,226	1,264,044	562,975	51	-	668,209	32,809
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	37,173	20,398	12,554	4,221	63,460	32,244	51	-	23,732	7,433
CENTERS FOR DISEASE CONTROL	-	-	-	-	74,822	-	-	-	74,822	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	71,400	62,832	-	-	8,568	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	6,006	-	-	-	6,006	-
HUMAN DEVELOPMENT SERVICES	1,763	-	-	1,763	13,229	-	-	-	11,706	1,523
NATIONAL INSTITUTES OF HEALTH	12,242	-	-	12,242	1,035,127	467,899	-	-	543,375	23,853
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	87,548	55,347	27,421	4,780	-	-
BONNEVILLE POWER ADMINISTRATION	-	-	-	-	2,262	-	-	2,262	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,248	120	200	928	-	-
BUREAU OF RECLAMATION	-	-	-	-	319	319	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	6,592	1,758	4,834	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	1,200	-	760	440	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	2,040	70	820	1,150	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	73,887	53,080	20,807	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,434	300	2,134	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	350	-	350	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	2,084	300	1,784	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	5,174	5,174	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	5,174	5,174	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	60,533	-	57,494	-	3,039	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	135	-	135	-	401	-	229	-	172	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	74,869	2,075	740	46,663	25,391	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	74,869	2,075	740	46,663	25,391	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,134	-	945	189	45,980	6,640	1,203	14,865	22,705	567
NATIONAL SCIENCE FOUNDATION	1,266	268	967	31	4,205	2,877	1,100	-	-	228
OFFICE OF PERSONNEL MANAGEMENT	3,143	-	3,143	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,800	900	900	-	-	-
VETERANS ADMINISTRATION	6,012	6,000	12	-	103,797	13,000	-	-	90,797	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-60. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	122,515	27,476	65,284	29,755	2,263,058	815,263	137,686	332,989	916,903	60,217
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	291,292	25,250	37,530	220,407	8,205	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	1,177	-	-	1,177	-	-
AGICULTURAL RESEARCH SERVICE	-	-	-	-	148,467	4,497	6,791	134,825	2,354	-
COOPERATIVE RESEARCH SERVICE	-	-	-	-	88,839	9,050	-	73,938	5,851	-
FOREST SERVICE	-	-	-	-	42,342	11,603	30,739	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	-	8,200	-	-	8,200	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	1,922	-	-	1,922	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	345	-	-	345	-	-
DEPARTMENT OF COMMERCE, TOTAL	212	-	212	-	163,388	75,156	1,052	39,494	21,476	26,210
BUREAU OF THE CENSUS	212	-	212	-	-	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	-	-	-	-	122,604	75,022	-	-	21,372	26,210
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	40,650	-	1,052	39,494	104	-
NAT'L TELECOMM & INFORMATION ADMIN	-	-	-	-	134	134	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	57,559	-	46,691	10,868	130,156	52,580	3,519	238	73,714	105
DEPARTMENT OF THE ARMY	25,506	-	25,506	-	72,462	4,302	2,124	238	65,758	40
DEPARTMENT OF THE NAVY	11,401	-	625	10,776	7,329	109	-	-	7,220	-
DEPARTMENT OF THE AIR FORCE	18,355	-	18,355	-	36,100	33,969	1,395	-	736	-
DEFENSE AGENCIES	2,297	-	2,205	92	14,265	14,200	-	-	-	65
DEPT OF HLTH & HUMAN SERVICES, TOTAL	53,883	22,307	12,689	18,887	1,282,100	576,813	63	-	673,290	31,934
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	39,438	22,307	12,689	4,442	66,729	34,571	63	-	26,014	6,081
CENTERS FOR DISEASE CONTROL	-	-	-	-	70,529	-	-	-	70,529	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	72,700	63,976	-	-	8,724	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	600	-	-	-	600	-
HUMAN DEVELOPMENT SERVICES	1,932	-	-	1,932	13,479	-	-	-	12,007	1,472
NATIONAL INSTITUTES OF HEALTH	12,513	-	-	12,513	1,058,063	478,266	-	-	555,416	24,381
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	89,306	54,350	29,436	5,520	-	-
BONNEVILLE POWER ADMINISTRATION	-	-	-	-	4,000	-	-	4,000	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,280	140	200	940	-	-
BUREAU OF RECLAMATION	-	-	-	-	380	380	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	6,469	2,267	4,202	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	300	-	-	300	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	730	80	370	280	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	76,147	51,483	24,664	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,638	200	1,438	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	350	-	350	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,288	200	1,088	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	5,214	3,886	-	-	-	1,328
COAST GUARD	-	-	-	-	1,328	-	-	-	-	1,328
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,886	3,886	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	65,049	-	62,817	-	2,232	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	158	-	158	-	553	-	316	-	237	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	88,542	2,385	264	56,133	29,760	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	88,542	2,385	264	56,133	29,760	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,095	-	1,095	-	39,927	6,200	1,089	11,197	20,911	530
NATIONAL SCIENCE FOUNDATION	255	72	183	-	5,868	5,058	700	-	-	110
OFFICE OF PERSONNEL MANAGEMENT	2,807	-	2,807	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,700	800	900	-	-	-
VETERANS ADMINISTRATION	4,908	4,897	11	-	99,963	12,885	-	-	87,078	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-61. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	158,023	34,453	82,057	41,513	2,306,691	827,837	131,004	332,549	959,012	56,289
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	295,531	23,921	34,259	229,044	8,307	-
AGICULTURAL RESEARCH SERVICE	-	-	-	-	161,843	4,902	7,403	146,972	2,566	-
COOPERATIVE RESEARCH SERVICE	-	-	-	-	87,176	8,881	-	72,554	5,741	-
FOREST SERVICE	-	-	-	-	36,994	10,138	26,856	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	-	7,300	-	-	7,300	-	-
OFF OF INTERNAT'L COOPERATION & DEV	-	-	-	-	1,880	-	-	1,880	-	-
OFFICE OF TRANSPORTATION	-	-	-	-	338	-	-	338	-	-
DEPARTMENT OF COMMERCE, TOTAL	218	-	218	-	134,884	60,713	639	32,041	21,107	20,384
BUREAU OF THE CENSUS	218	-	218	-	-	-	-	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	-	-	-	-	102,204	60,713	-	-	21,107	20,384
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	32,680	-	639	32,041	-	-
DEPARTMENT OF DEFENSE, TOTAL	81,958	-	60,636	21,322	149,132	61,537	3,805	249	83,427	114
DEPARTMENT OF THE ARMY	43,084	-	34,370	8,714	85,152	6,141	2,234	249	76,487	41
DEPARTMENT OF THE NAVY	12,945	-	467	12,478	6,235	125	-	-	6,110	-
DEPARTMENT OF THE AIR FORCE	25,799	-	25,799	-	43,039	40,638	1,571	-	830	-
DEFENSE AGENCIES	130	-	-	130	14,706	14,633	-	-	-	73
DEPT OF HLTH & HUMAN SERVICES, TOTAL	60,376	25,273	14,912	20,191	1,333,109	602,770	114	-	695,706	34,519
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	45,704	25,273	14,912	5,519	78,698	42,175	114	-	28,486	7,923
CENTERS FOR DISEASE CONTROL	-	-	-	-	72,019	-	-	-	72,019	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	74,700	65,736	-	-	8,964	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	600	-	-	-	600	-
HUMAN DEVELOPMENT SERVICES	1,725	-	-	1,725	12,321	-	-	-	10,952	1,369
NATIONAL INSTITUTES OF HEALTH	12,947	-	-	12,947	1,094,771	494,859	-	-	574,685	25,227
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	87,041	49,321	30,279	7,441	-	-
BONNEVILLE POWER ADMINISTRATION	-	-	-	-	5,100	-	-	5,100	-	-
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,974	34	84	1,856	-	-
BUREAU OF RECLAMATION	-	-	-	-	323	323	-	-	-	-
NATIONAL PARK SERVICE	-	-	-	-	6,425	2,036	4,389	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	625	70	70	485	-	-
US FISH & WILDLIFE SERVICE	-	-	-	-	72,594	46,858	25,736	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,500	650	1,850	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	350	-	350	-	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	2,150	650	1,500	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	5,102	3,956	-	-	-	1,146
COAST GUARD	-	-	-	-	1,146	-	-	-	-	1,146
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,956	3,956	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	181	181	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	60,077	-	57,576	-	2,501	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	542	-	542	-	1,446	-	904	-	542	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	81,999	2,235	264	51,745	27,755	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	81,999	2,235	264	51,745	27,755	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,479	-	1,479	-	47,853	7,385	864	12,029	27,575	-
NATIONAL SCIENCE FOUNDATION	249	62	187	-	5,974	4,948	900	-	-	126
OFFICE OF PERSONNEL MANAGEMENT	2,223	-	2,223	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,600	1,200	1,400	-	-	-
VETERANS ADMINISTRATION	8,478	8,468	10	-	101,762	9,670	-	-	92,092	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-62. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONO-MY	CHEM-ISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	895,594	6,800	188,689	610,221	89,884	588,247	199,603	201,877	118,390	68,377
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	25,024	-	22,664	2,360	-	10,421	2,966	7,455	-	-
AGICULTURAL RESEARCH SERVICE	16,221	-	14,597	1,624	-	1,439	1,016	423	-	-
COOPERATIVE RESEARCH SERVICE	5,777	-	5,777	-	-	723	723	-	-	-
FOREST SERVICE	3,026	-	2,290	736	-	8,259	1,227	7,032	-	-
DEPARTMENT OF COMMERCE, TOTAL	420,709	108	22,642	378,673	19,286	176,908	67,558	30,734	69,191	9,425
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	390,165	-	13,722	357,157	19,286	73,254	25,044	28,861	10,001	9,348
NATIONAL BUREAU OF STANDARDS	24,417	108	7,506	16,803	-	472	240	232	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	6,127	-	1,414	4,713	-	103,182	42,274	1,641	59,190	77
DEPARTMENT OF DEFENSE, TOTAL	335,188	1,200	47,218	220,454	66,316	107,066	63,009	21,916	18,306	3,835
DEPARTMENT OF THE ARMY	58,553	-	24,592	14,920	19,041	10,755	6,087	4,097	436	135
DEPARTMENT OF THE NAVY	98,523	1,200	8,081	73,696	15,546	19,725	5,612	-	14,113	-
DEPARTMENT OF THE AIR FORCE	49,721	-	14,290	32,978	2,453	32,586	27,517	4,277	-	792
DEFENSE AGENCIES	128,391	-	255	98,860	29,276	44,000	23,793	13,542	3,757	2,908
DEPT OF HLTH & HUMAN SERVICES, TOTAL	25,062	-	22,078	2,984	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	232	-	232	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	24,830	-	21,846	2,984	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	7,274	-	5,290	1,277	707	125,255	10,165	99,077	10,180	5,833
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	135	-	-	-	135
BUREAU OF MINES	700	-	700	-	-	9,100	-	4,300	-	4,800
BUREAU OF RECLAMATION	-	-	-	-	-	9,065	8,920	-	145	-
GEOLOGICAL SURVEY	5,000	-	4,000	1,000	-	102,434	-	92,889	9,545	-
NATIONAL PARK SERVICE	241	-	-	137	104	1,982	1,215	75	290	402
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	603	-	-	-	603	989	-	493	-	496
OFFICE OF WATER RSCH & TECHNOLOGY	730	-	590	140	-	1,550	30	1,320	200	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	220	-	-	128	92
DEPARTMENTAL FUNDS	-	-	-	-	-	220	-	-	128	92
DEPARTMENT OF TRANSPORTATION, TOTAL	148	-	148	-	-	138	61	77	-	-
FEDERAL HIGHWAY ADMINISTRATION	148	-	148	-	-	138	61	77	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,011	-	225	206	580	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	907	-	200	127	580	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	54	-	-	54	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	66,420	-	66,420	-	-	3,618	-	2,980	638	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,264	-	10	1,254	-	30	30	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	-	51	-	-	-	51
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	-	51	-	-	-	51
NATIONAL AERONAUTICS & SPACE ADMIN	11,271	5,425	1,081	2,162	2,603	162,428	55,763	38,543	19,428	48,694
NATIONAL SCIENCE FOUNDATION	2,223	67	913	851	392	1,794	21	841	485	447
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	318	30	254	34	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-63. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,078,037	7,115	322,525	618,027	130,370	569,044	209,018	191,464	99,376	69,186
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	26,382	-	24,496	1,886	-	9,083	2,793	6,290	-	-
AGICULTURAL RESEARCH SERVICE	17,407	-	16,132	1,275	-	1,419	965	454	-	-
COOPERATIVE RESEARCH SERVICE	6,464	-	6,464	-	-	810	810	-	-	-
FOREST SERVICE	2,511	-	1,900	611	-	6,854	1,018	5,836	-	-
DEPARTMENT OF COMMERCE, TOTAL	437,882	504	145,052	276,143	16,183	158,705	71,505	29,162	49,153	8,885
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	407,828	390	137,340	253,915	16,183	74,823	28,204	27,278	10,456	8,885
NATIONAL BUREAU OF STANDARDS	24,072	114	6,834	17,124	-	600	233	367	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	5,982	-	878	5,104	-	83,282	43,068	1,517	38,697	-
DEPARTMENT OF DEFENSE, TOTAL	506,684	1,250	62,483	331,013	111,938	114,221	66,323	23,557	20,005	4,336
DEPARTMENT OF THE ARMY	75,749	-	37,620	16,850	21,279	11,404	5,339	3,923	418	1,724
DEPARTMENT OF THE NAVY	129,155	1,250	11,558	100,367	15,980	20,119	5,884	-	14,235	-
DEPARTMENT OF THE AIR FORCE	50,068	-	13,030	34,417	2,621	32,285	27,752	4,533	-	-
DEFENSE AGENCIES	251,712	-	275	179,379	72,058	50,413	27,348	15,101	5,352	2,612
DEPT OF HLTH & HUMAN SERVICES, TOTAL	25,625	-	22,575	3,050	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	245	-	245	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	25,380	-	22,330	3,050	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	5,437	-	4,500	875	62	113,154	7,507	90,488	9,753	5,406
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	300	-	-	-	300
BUREAU OF MINES	1,100	-	1,100	-	-	10,344	-	6,000	-	4,344
BUREAU OF RECLAMATION	-	-	-	-	-	5,638	5,526	-	112	-
GEOLOGICAL SURVEY	3,975	-	3,180	795	-	92,780	-	83,529	9,251	-
NATIONAL PARK SERVICE	62	-	-	-	62	3,082	1,951	69	300	762
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	80	-	80	-	-	180	-	180	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	220	-	140	80	-	830	30	710	90	-
DEPARTMENT OF JUSTICE, TOTAL	200	-	-	-	200	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	-	200	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	140	-	-	100	40
DEPARTMENTAL FUNDS	-	-	-	-	-	140	-	-	100	40
DEPARTMENT OF TRANSPORTATION, TOTAL	105	-	105	-	-	110	30	80	-	-
FEDERAL HIGHWAY ADMINISTRATION	105	-	105	-	-	110	30	80	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,393	-	306	195	892	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,393	-	306	195	892	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	61,481	-	61,481	-	-	3,879	1,379	1,650	850	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,579	-	79	1,500	-	79	79	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	-	200	-	-	-	200
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	-	200	-	-	-	200
NATIONAL AERONAUTICS & SPACE ADMIN	9,000	5,300	400	2,300	1,000	167,744	59,371	39,173	18,963	50,237
NATIONAL SCIENCE FOUNDATION	2,269	61	1,048	1,065	95	1,621	20	978	541	82
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	108	11	86	11	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-64. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,195,944	7,005	184,097	857,180	147,662	538,335	201,369	187,596	79,443	69,927
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	27,512	-	25,588	1,924	-	8,329	2,735	5,594	-	-
AGICULTURAL RESEARCH SERVICE	18,975	-	17,585	1,390	-	1,547	1,052	495	-	-
COOPERATIVE RESEARCH SERVICE	6,343	-	6,343	-	-	794	794	-	-	-
FOREST SERVICE	2,194	-	1,660	534	-	5,988	889	5,099	-	-
DEPARTMENT OF COMMERCE, TOTAL	483,175	507	24,486	451,209	6,973	121,628	60,762	26,579	29,215	5,072
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	451,898	390	16,072	428,463	6,973	60,245	22,983	24,161	8,029	5,072
NATIONAL BUREAU OF STANDARDS	25,000	117	7,534	17,349	-	377	-	377	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	6,277	-	880	5,397	-	61,006	37,779	2,041	21,186	-
DEPARTMENT OF DEFENSE, TOTAL	599,333	1,133	68,179	391,835	138,186	120,055	66,867	28,132	18,772	6,284
DEPARTMENT OF THE ARMY	78,869	-	38,409	20,448	20,012	10,476	4,523	4,642	437	874
DEPARTMENT OF THE NAVY	149,910	1,133	15,314	115,368	18,095	17,920	5,453	-	12,467	-
DEPARTMENT OF THE AIR FORCE	55,743	-	14,156	38,715	2,872	38,680	33,002	5,678	-	-
DEFENSE AGENCIES	314,811	-	300	217,304	97,207	52,979	23,889	17,812	5,868	5,410
DEPT OF HLTH & HUMAN SERVICES, TOTAL	27,846	-	24,690	3,156	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,585	-	1,585	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	26,261	-	23,105	3,156	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	5,533	-	4,610	860	63	99,789	6,471	81,226	9,737	2,355
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	250	-	-	-	250
BUREAU OF MINES	1,100	-	1,100	-	-	4,100	-	2,800	-	1,300
BUREAU OF RECLAMATION	-	-	-	-	-	4,473	4,323	-	150	-
GEOLOGICAL SURVEY	4,300	-	3,440	860	-	87,744	-	78,157	9,587	-
NATIONAL PARK SERVICE	63	-	-	-	63	3,022	2,148	69	-	805
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	70	-	70	-	-	200	-	200	-	-
DEPARTMENT OF JUSTICE, TOTAL	200	-	-	-	200	-	-	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	200	-	-	-	200	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	140	-	-	-	140
DEPARTMENTAL FUNDS	-	-	-	-	-	140	-	-	-	140
DEPARTMENT OF TRANSPORTATION, TOTAL	94	-	94	-	-	135	78	57	-	-
FEDERAL HIGHWAY ADMINISTRATION	94	-	94	-	-	135	78	57	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,781	-	392	249	1,140	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,781	-	392	249	1,140	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	34,253	-	34,253	-	-	1,067	-	1,067	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	4,609	-	90	4,519	-	181	181	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	-	160	-	-	-	160
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	-	160	-	-	-	160
NATIONAL AERONAUTICS & SPACE ADMIN	9,000	5,300	400	2,300	1,000	184,973	64,185	43,805	21,149	55,834
NATIONAL SCIENCE FOUNDATION	2,608	65	1,315	1,128	100	1,713	70	1,011	550	82
US ARMS CONTROL & DISARMAMENT AGENCY	-	-	-	-	-	165	20	125	20	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-65. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,545,436	596,293	270,757	116,294	135,750	478,166	157,268	117,492	673,416
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	34,161	-	-	2,837	3,607	181	2,749	-	24,787
AGICULTURAL RESEARCH SERVICE	20,634	-	-	1,610	1,481	181	705	-	16,657
COOPERATIVE RESEARCH SERVICE	3,960	-	-	-	-	-	-	-	3,960
FOREST SERVICE	9,567	-	-	1,227	2,126	-	2,044	-	4,170
DEPARTMENT OF COMMERCE, TOTAL	243,011	-	-	29,473	24,316	24,687	15,311	17,344	131,880
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	216,338	-	-	28,450	20,696	13,737	13,581	12,735	127,139
NATIONAL BUREAU OF STANDARDS	17,916	-	-	1,023	2,977	2,973	1,730	4,472	4,741
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,193	-	-	-	643	1,413	-	137	-
NAT'L TELECOMM & INFORMATION ADMIN	6,564	-	-	-	-	6,564	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,135,983	204,101	68,409	21,807	32,245	426,543	109,272	65,717	207,889
DEPARTMENT OF THE ARMY	221,563	25,245	1,480	16,541	22,082	90,553	34,450	15,495	15,717
DEPARTMENT OF THE NAVY	300,875	34,351	-	2,456	3,005	60,533	44,006	23,569	132,955
DEPARTMENT OF THE AIR FORCE	328,114	96,998	46,659	2,646	2,342	146,904	9,843	14,523	8,199
DEFENSE AGENCIES	285,431	47,507	20,270	164	4,816	128,553	20,973	12,130	51,018
DEPT OF HLTH & HUMAN SERVICES, TOTAL	20,518	-	-	-	-	-	-	-	20,518
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	49	-	-	-	-	-	-	-	49
HUMAN DEVELOPMENT SERVICES	5,065	-	-	-	-	-	-	-	5,065
NATIONAL INSTITUTES OF HEALTH	15,404	-	-	-	-	-	-	-	15,404
DEPT OF HOUSING & URBAN DEVELOPMENT	1,829	-	-	-	-	-	-	-	1,829
DEPARTMENT OF THE INTERIOR, TOTAL	61,017	-	-	3,445	19,234	4,351	4,646	27,255	2,086
BONNEVILLE POWER ADMINISTRATION	3,809	-	-	-	-	3,809	-	-	-
BUREAU OF MINES	41,800	-	-	3,400	7,600	-	3,600	27,200	-
BUREAU OF RECLAMATION	3,750	-	-	45	2,577	242	96	-	790
GEOLOGICAL SURVEY	6,950	-	-	-	5,700	300	950	-	-
NATIONAL PARK SERVICE	43	-	-	-	-	-	-	-	43
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	2,215	-	-	-	907	-	-	55	1,253
OFFICE OF WATER RSCH & TECHNOLOGY	2,450	-	-	-	2,450	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	370	-	-	-	-	370	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	300	-	-	-	-	300	-	-	-
IMMIGRATION & NATURALIZATION SVC	70	-	-	-	-	70	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	56,182	1,230	574	531	21,238	5,936	20,057	1,084	5,532
COAST GUARD	5,383	-	-	-	-	2,893	-	-	2,490
FEDERAL AVIATION ADMINISTRATION	8,200	1,230	574	-	5,330	1,066	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,626	-	-	-	3,596	153	714	163	-
FEDERAL RAILROAD ADMINISTRATION	6,168	-	-	-	2,283	493	1,850	-	1,542
MARITIME ADMINISTRATION	8,121	-	-	-	-	800	4,900	921	1,500
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	11,848	-	-	-	-	-	11,848	-	-
OFFICE OF THE SECRETARY	300	-	-	-	300	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,236	-	-	531	429	531	745	-	-
URBAN MASS TRANSPORTATION ADMIN	9,300	-	-	-	9,300	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	150	-	-	-	-	150	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	77,229	-	-	55,788	21,441	-	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,259	-	-	-	-	1,259	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,914	-	-	155	867	128	840	-	924
GENERAL SERVICES ADMINISTRATION	318	-	-	246	40	-	-	-	32
INTERNATIONAL COMMUNICATION AGENCY	125	-	-	-	-	125	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	6,947	-	-	-	2,753	1,000	-	-	3,194
AGENCY FOR INTERNAT'L DEVELOPMENT	6,947	-	-	-	2,753	1,000	-	-	3,194
NATIONAL AERONAUTICS & SPACE ADMIN	652,026	390,962	201,614	12	-	1,975	2,240	4,479	50,744
NATIONAL SCIENCE FOUNDATION	20,783	-	30	1,977	10,009	3,778	2,153	1,613	1,223
NUCLEAR REGULATORY COMMISSION	219,667	-	-	-	-	-	-	-	219,667
TENNESSEE VALLEY AUTHORITY	7,600	-	-	-	-	7,600	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	456	-	130	23	-	83	-	-	220
VETERANS ADMINISTRATION	2,891	-	-	-	-	-	-	-	2,891

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-66. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,549,006	539,312	269,412	114,301	137,325	483,252	146,038	137,131	722,235
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	32,884	-	-	2,723	3,173	180	2,431	-	24,377
AGICULTURAL RESEARCH SERVICE	20,513	-	-	1,705	1,409	180	735	-	16,484
COOPERATIVE RESEARCH SERVICE	4,432	-	-	-	-	-	-	-	4,432
FOREST SERVICE	7,939	-	-	1,018	1,764	-	1,696	-	3,461
DEPARTMENT OF COMMERCE, TOTAL	293,761	-	-	25,223	35,753	30,572	5,107	27,205	169,901
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	264,467	-	-	24,000	30,870	20,490	3,824	20,901	164,382
NATIONAL BUREAU OF STANDARDS	21,583	-	-	1,223	4,193	3,061	1,283	6,304	5,519
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,611	-	-	-	690	921	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	6,100	-	-	-	-	6,100	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,168,325	190,328	72,029	23,271	36,290	419,609	114,446	71,370	240,982
DEPARTMENT OF THE ARMY	219,141	23,986	2,790	17,782	22,623	84,724	37,802	13,857	15,577
DEPARTMENT OF THE NAVY	304,743	30,553	-	2,640	3,587	78,585	42,452	25,870	121,056
DEPARTMENT OF THE AIR FORCE	289,330	96,118	45,609	2,680	2,252	110,797	9,279	14,445	8,150
DEFENSE AGENCIES	355,111	39,671	23,630	169	7,828	145,503	24,913	17,198	96,199
DEPT OF HLTH & HUMAN SERVICES, TOTAL	20,841	-	-	-	-	-	-	-	20,841
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	147	-	-	-	-	-	-	-	147
HUMAN DEVELOPMENT SERVICES	4,949	-	-	-	-	-	-	-	4,949
NATIONAL INSTITUTES OF HEALTH	15,745	-	-	-	-	-	-	-	15,745
DEPT OF HOUSING & URBAN DEVELOPMENT	367	-	-	-	-	-	-	-	367
DEPARTMENT OF THE INTERIOR, TOTAL	61,721	-	-	5,435	13,786	6,989	3,953	30,950	608
BONNEVILLE POWER ADMINISTRATION	6,459	-	-	-	-	6,459	-	-	-
BUREAU OF MINES	43,000	-	-	5,400	3,900	-	2,900	30,800	-
BUREAU OF RECLAMATION	3,702	-	-	35	2,771	250	101	-	545
GEOLOGICAL SURVEY	6,417	-	-	-	5,185	280	952	-	-
NATIONAL PARK SERVICE	63	-	-	-	-	-	-	-	63
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	300	-	-	-	150	-	-	150	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,780	-	-	-	1,780	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,176	-	-	-	-	1,176	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	800	-	-	-	-	800	-	-	-
IMMIGRATION & NATURALIZATION SVC	376	-	-	-	-	376	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	44,820	465	217	466	19,595	4,445	14,657	745	4,230
COAST GUARD	3,707	-	-	-	-	1,992	-	-	1,715
FEDERAL AVIATION ADMINISTRATION	3,100	465	217	-	2,015	403	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,620	-	-	-	3,745	200	530	145	-
FEDERAL RAILROAD ADMINISTRATION	6,069	-	-	-	2,252	484	1,818	-	1,515
MARITIME ADMINISTRATION	5,202	-	-	-	-	900	2,702	600	1,000
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	8,953	-	-	-	-	-	8,953	-	-
OFFICE OF THE SECRETARY	200	-	-	-	200	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	1,962	-	-	466	376	466	654	-	-
URBAN MASS TRANSPORTATION ADMIN	11,007	-	-	-	11,007	-	-	-	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	71,491	-	-	54,923	16,568	-	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	524	-	-	-	-	524	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,473	-	-	158	1,026	158	1,026	-	1,105
GENERAL SERVICES ADMINISTRATION	153	-	-	-	103	-	-	-	50
INTERNATIONAL COMMUNICATION AGENCY	499	-	-	-	-	499	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	9,441	-	-	-	1,605	1,000	-	-	6,836
AGENCY FOR INTERNAT'L DEVELOPMENT	9,441	-	-	-	1,605	1,000	-	-	6,836
NATIONAL AERONAUTICS & SPACE ADMIN	588,354	348,519	197,090	50	-	2,000	2,300	5,131	33,264
NATIONAL SCIENCE FOUNDATION	20,324	-	30	2,042	9,426	3,868	2,118	1,730	1,110
NUCLEAR REGULATORY COMMISSION	215,763	-	-	-	-	-	-	-	215,763
TENNESSEE VALLEY AUTHORITY	12,200	-	-	-	-	12,200	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	160	-	46	10	-	32	-	-	72
VETERANS ADMINISTRATION	2,729	-	-	-	-	-	-	-	2,729

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-67. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,516,938	548,942	288,368	103,468	113,523	520,543	165,680	138,839	637,575
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	33,646	-	-	2,748	3,077	196	2,283	-	25,342
AGICULTURAL RESEARCH SERVICE	22,361	-	-	1,859	1,536	196	801	-	17,969
COOPERATIVE RESEARCH SERVICE	4,349	-	-	-	-	-	-	-	4,349
FOREST SERVICE	6,936	-	-	889	1,541	-	1,482	-	3,024
DEPARTMENT OF COMMERCE, TOTAL	159,158	-	-	14,856	17,374	16,099	8,717	22,834	79,278
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	131,902	-	-	14,600	10,850	7,201	7,184	18,471	73,596
NATIONAL BUREAU OF STANDARDS	20,787	-	-	256	5,808	3,145	1,533	4,363	5,682
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,681	-	-	-	716	965	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	4,788	-	-	-	-	4,788	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,266,233	191,495	76,677	31,625	39,279	471,165	133,565	78,911	243,516
DEPARTMENT OF THE ARMY	265,569	35,416	3,389	22,041	24,917	115,944	39,984	14,845	9,033
DEPARTMENT OF THE NAVY	340,368	33,326	-	2,670	3,565	81,983	46,574	25,420	146,830
DEPARTMENT OF THE AIR FORCE	348,177	110,881	57,762	3,490	3,122	133,011	11,386	18,184	10,341
DEFENSE AGENCIES	312,119	11,872	15,526	3,424	7,675	140,227	35,621	20,462	77,312
DEPT OF HLTH & HUMAN SERVICES, TOTAL	20,928	-	-	-	-	-	-	-	20,928
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	48	-	-	-	-	-	-	-	48
HUMAN DEVELOPMENT SERVICES	4,588	-	-	-	-	-	-	-	4,588
NATIONAL INSTITUTES OF HEALTH	16,292	-	-	-	-	-	-	-	16,292
DEPT OF HOUSING & URBAN DEVELOPMENT	510	-	-	-	-	-	-	-	510
DEPARTMENT OF THE INTERIOR, TOTAL	53,736	-	-	5,755	9,952	6,275	3,022	27,875	857
BONNEVILLE POWER ADMINISTRATION	5,765	-	-	-	-	5,765	-	-	-
BUREAU OF MINES	37,300	-	-	5,700	1,900	-	2,100	27,600	-
BUREAU OF RECLAMATION	4,280	-	-	55	3,092	260	73	-	800
GEOLOGICAL SURVEY	5,859	-	-	-	4,760	250	849	-	-
NATIONAL PARK SERVICE	57	-	-	-	-	-	-	-	57
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	475	-	-	-	200	-	-	275	-
DEPARTMENT OF JUSTICE, TOTAL	600	-	-	-	-	600	-	-	-
DRUG ENFORCEMENT ADMINISTRATION	400	-	-	-	-	400	-	-	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	200	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	51,145	1,200	560	445	19,633	3,841	15,133	1,003	9,330
COAST GUARD	4,089	-	-	-	-	1,604	-	-	2,485
FEDERAL AVIATION ADMINISTRATION	8,000	1,200	560	-	5,200	1,040	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,935	-	-	-	4,170	182	380	203	-
FEDERAL RAILROAD ADMINISTRATION	3,383	-	-	-	1,254	270	1,014	-	845
MARITIME ADMINISTRATION	11,100	-	-	-	-	300	4,000	800	6,000
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,117	-	-	-	-	-	9,117	-	-
OFFICE OF THE SECRETARY	150	-	-	-	150	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	1,871	-	-	445	359	445	622	-	-
URBAN MASS TRANSPORTATION ADMIN	8,500	-	-	-	8,500	-	-	-	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	54,603	-	-	45,742	8,861	-	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	429	-	-	-	-	429	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	5,873	-	-	-	2,711	90	723	-	2,349
GENERAL SERVICES ADMINISTRATION	510	-	-	-	235	-	-	-	275
INTERNATIONAL COMMUNICATION AGENCY	150	-	-	-	-	150	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	8,105	-	-	-	1,800	600	-	-	5,705
AGENCY FOR INTERNAT'L DEVELOPMENT	8,105	-	-	-	1,800	600	-	-	5,705
NATIONAL AERONAUTICS & SPACE ADMIN	606,774	356,247	211,005	50	-	2,000	-	6,264	31,208
NATIONAL SCIENCE FOUNDATION	22,131	-	32	2,227	10,601	3,940	2,237	1,952	1,142
NUCLEAR REGULATORY COMMISSION	213,525	-	-	-	-	-	-	-	213,525
TENNESSEE VALLEY AUTHORITY	15,100	-	-	-	-	15,100	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	322	-	94	20	-	58	-	-	150
VETERANS ADMINISTRATION	3,460	-	-	-	-	-	-	-	3,460

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-68. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	138,565	38,552	69,315	30,698	360,476	1,459	172,610	4,481	42,397	139,529
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	16,079	16,079	-	-	67,015	1	62,382	225	3,727	680
AGICULTURAL COOPERATIVE SERVICE	-	-	-	-	1,739	-	1,739	-	-	-
AGICULTURAL RESEARCH SERVICE	1,050	1,050	-	-	1,466	1	944	-	56	465
COOPERATIVE RESEARCH SERVICE	-	-	-	-	25,686	-	24,326	-	1,360	-
ECONOMIC RESEARCH SERVICE	6,057	6,057	-	-	29,702	-	28,750	143	594	215
FOREST SERVICE	1,472	1,472	-	-	8,422	-	6,623	82	1,717	-
STATISTICAL REPORTING SERVICE	7,500	7,500	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	13,463	5,770	2,504	5,189	8,037	-	3,678	116	293	3,950
BUREAU OF THE CENSUS	1,650	1,378	272	-	648	-	355	-	293	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,600	-	1,600	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	3,500	-	-	3,500	3,950	-	-	-	-	3,950
NATIONAL BUREAU OF STANDARDS	6,230	3,921	620	1,689	1,605	-	1,605	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	943	471	472	-	220	-	118	102	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,140	-	1,140	-	14	-	-	14	-	-
DEPARTMENT OF DEFENSE, TOTAL	88,160	7,537	56,984	23,639	765	-	143	-	577	45
DEPARTMENT OF THE ARMY	7,127	1,110	5,922	95	765	-	143	-	577	45
DEPARTMENT OF THE NAVY	24,268	-	18,020	6,248	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	26,332	3,160	20,528	2,644	-	-	-	-	-	-
DEFENSE AGENCIES	30,433	3,267	12,514	14,652	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,637	4,637	-	-	133,717	390	14,629	953	24,682	93,063
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	-	-	-	-	17,079	390	88	563	12,704	3,334
HEALTH CARE FINANCING ADMIN	-	-	-	-	38,623	-	-	-	-	38,623
HUMAN DEVELOPMENT SERVICES	-	-	-	-	19,394	-	-	-	-	19,394
NATIONAL INSTITUTES OF HEALTH	4,299	4,299	-	-	5,768	-	-	-	-	5,768
OFFICE OF ASST'T SECY FOR HEALTH	338	338	-	-	15,975	-	1,311	390	6,308	7,966
OFFICE OF THE SECRETARY	-	-	-	-	18,900	-	13,230	-	5,670	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	17,978	-	-	-	-	17,978
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	14,861	-	14,740	-	-	121
DEPARTMENT OF THE INTERIOR, TOTAL	4,533	3,000	1,203	330	3,537	1,056	289	-	108	2,084
BUREAU OF LAND MANAGEMENT	-	-	-	-	75	-	-	-	-	75
BUREAU OF MINES	2,800	2,800	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	135	-	39	-	96	-
GEOLOGICAL SURVEY	1,400	200	1,200	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	3	-	3	-	1,480	1,056	-	-	-	424
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	787	-	-	-	12	775
OFFICE OF WATER RSCH & TECHNOLOGY	330	-	-	330	1,060	-	250	-	-	810
DEPARTMENT OF JUSTICE, TOTAL	100	-	100	-	11,968	-	900	650	4,398	6,020
DRUG ENFORCEMENT ADMINISTRATION	100	-	100	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	1,307	-	400	-	250	657
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	700	-	-	-	-	700
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	9,961	-	500	650	4,148	4,663
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	54,457	-	54,457	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	251	-	251	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	3,200	-	3,200	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	45,054	-	45,054	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	1,752	-	1,752	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	3,000	-	3,000	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,100	-	1,100	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	-	-	-	-	100	-	100	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,386	-	146	-	-	1,240
DEPARTMENTAL FUNDS	-	-	-	-	1,386	-	146	-	-	1,240

CONTINUED ON NEXT PAGE

TABLE C-68. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,193	-	1,193	-	15,096	-	9,288	-	5,808	-
FEDERAL HIGHWAY ADMINISTRATION	60	-	60	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	23	-	23	-	9	-	9	-	-	-
MARITIME ADMINISTRATION	355	-	355	-	400	-	400	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	12,378	-	7,315	-	5,063	-
OFFICE OF THE SECRETARY	-	-	-	-	400	-	400	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	755	-	755	-	1,909	-	1,164	-	745	-
DEPARTMENT OF THE TREASURY, TOTAL	672	-	672	-	245	-	245	-	-	-
INTERNAL REVENUE SERVICE	672	-	672	-	245	-	245	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	2,211	-	1,106	1,105	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	280	-	280	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,927	-	-	-	1,927	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	484	-	349	46	-	89
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	436	383	53	-	704	-	263	205	236	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,036	-	1,036	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	165	-	-	165	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	-	-	-	-	24,124	-	-	-	-	24,124
GENERAL SERVICES ADMINISTRATION	72	-	72	-	-	-	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	-	-	-	-	887	-	-	-	-	887
INTERNAT'L DEV COOPERATION AGENCY	931	-	931	-	3,100	-	-	-	-	3,100
AGENCY FOR INTERNAT'L DEVELOPMENT ..	931	-	931	-	3,100	-	-	-	-	3,100
INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,397	-	3,397	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,025	1,042	860	123	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,844	104	4,510	1,230	10,388	12	5,239	370	641	4,126
OFFICE OF PERSONNEL MANAGEMENT	-	-	-	-	244	-	-	244	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	420	-	233	187	445	-	43	402	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-69. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	145,643	39,727	75,514	30,402	284,284	1,277	134,477	4,093	32,193	112,244
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	15,423	15,423	-	-	68,204	-	63,843	211	3,545	605
AGRICULTURAL COOPERATIVE SERVICE	-	-	-	-	1,808	-	1,808	-	-	-
AGICULTURAL RESEARCH SERVICE	844	844	-	-	958	-	564	-	4	390
COOPERATIVE RESEARCH SERVICE	-	-	-	-	28,744	-	27,223	-	1,521	-
ECONOMIC RESEARCH SERVICE	6,058	6,058	-	-	29,704	-	28,752	143	594	215
FOREST SERVICE	1,221	1,221	-	-	6,990	-	5,496	68	1,426	-
HUMAN NUTRITION INFORMATION SERVICE	300	300	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	7,000	7,000	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	15,363	6,015	4,671	4,677	6,634	-	3,110	108	286	3,130
BUREAU OF THE CENSUS	1,604	1,339	265	-	630	-	344	-	286	-
ECONOMIC DEVELOPMENT ADMINISTRATION	-	-	-	-	1,600	-	1,600	-	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	3,000	-	-	3,000	3,000	-	-	-	-	3,000
NATIONAL BUREAU OF STANDARDS	7,954	4,216	2,061	1,677	781	-	781	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,045	460	585	-	593	-	385	78	-	130
NAT'L TELECOMM & INFORMATION ADMIN	1,760	-	1,760	-	30	-	-	30	-	-
DEPARTMENT OF DEFENSE, TOTAL	94,725	7,873	61,410	25,442	841	-	137	-	654	50
DEPARTMENT OF THE ARMY	6,891	1,196	5,580	115	841	-	137	-	654	50
DEPARTMENT OF THE NAVY	17,853	-	10,399	7,454	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	24,812	3,490	18,324	2,998	-	-	-	-	-	-
DEFENSE AGENCIES	45,169	3,187	27,107	14,875	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,697	4,697	-	-	103,624	384	9,878	748	19,018	73,596
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	-	-	-	-	15,845	384	86	551	11,915	2,909
HEALTH CARE FINANCING ADMIN	-	-	-	-	29,500	-	-	-	-	29,500
HUMAN DEVELOPMENT SERVICES	-	-	-	-	14,735	-	-	-	-	14,735
NATIONAL INSTITUTES OF HEALTH	4,394	4,394	-	-	5,896	-	-	-	-	5,896
OFFICE OF ASST'T SECY FOR HEALTH	303	303	-	-	8,081	-	664	197	3,191	4,029
OFFICE OF THE SECRETARY	-	-	-	-	13,040	-	9,128	-	3,912	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	16,527	-	-	-	-	16,527
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	12,634	-	12,570	-	-	64
DEPARTMENT OF THE INTERIOR, TOTAL	4,188	2,659	1,419	110	1,849	883	185	-	90	691
BUREAU OF MINES	2,500	2,500	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	65	-	25	-	40	-
GEOLOGICAL SURVEY	1,495	159	1,336	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	3	-	3	-	1,404	883	-	-	50	471
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	80	-	80	-	60	-	60	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	110	-	-	110	320	-	100	-	-	220
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	11,708	-	800	1,500	3,305	6,103
FEDERAL PRISON SYSTEM	-	-	-	-	1,307	-	400	-	250	657
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	804	-	-	-	-	804
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	9,597	-	400	1,500	3,055	4,642
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	25,609	-	25,609	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	291	-	291	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	2,000	-	2,000	-	-	-
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	16,717	-	16,717	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	606	-	606	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	4,900	-	4,900	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	900	-	900	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	-	-	-	-	195	-	195	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,859	-	300	-	-	1,559
DEPARTMENTAL FUNDS	-	-	-	-	1,859	-	300	-	-	1,559

CONTINUED ON NEXT PAGE

TABLE C-69. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,241	-	1,241	-	11,644	-	7,159	-	4,485	-
FEDERAL HIGHWAY ADMINISTRATION	155	-	155	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	23	-	23	-	8	-	8	-	-	-
MARITIME ADMINISTRATION	400	-	400	-	200	-	200	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	9,361	-	5,530	-	3,831	-
OFFICE OF THE SECRETARY	-	-	-	-	400	-	400	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	663	-	663	-	1,675	-	1,021	-	654	-
DEPARTMENT OF THE TREASURY, TOTAL	1,809	1,160	649	-	1,257	-	1,257	-	-	-
INTERNAL REVENUE SERVICE	1,809	1,160	649	-	1,257	-	1,257	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,884	-	942	942	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	300	-	300	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	332	-	223	-	-	109
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	553	474	79	-	789	-	237	236	316	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,210	-	1,210	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	174	-	174	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	-	-	-	-	20,885	-	-	-	-	20,885
GENERAL SERVICES ADMINISTRATION	400	-	400	-	-	-	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	-	-	-	-	642	-	-	-	-	642
INTERNAT'L DEV COOPERATION AGENCY	350	-	350	-	2,900	-	-	-	-	2,900
AGENCY FOR INTERNAT'L DEVELOPMENT ..	350	-	350	-	2,900	-	-	-	-	2,900
INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,639	-	3,639	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,311	1,301	900	110	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,435	125	4,310	-	5,512	10	2,889	209	494	1,910
US ARMS CONTROL & DISARMAMENT AGENCY .	148	-	85	63	154	-	15	139	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-70. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	170,992	48,543	91,512	30,937	273,455	1,131	118,616	3,783	33,375	116,550
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	16,548	16,548	-	-	67,491	-	63,282	207	3,355	647
AGRICULTURAL COOPERATIVE SERVICE	-	-	-	-	1,436	-	1,436	-	-	-
AGICULTURAL RESEARCH SERVICE	920	920	-	-	1,044	-	615	-	4	425
COOPERATIVE RESEARCH SERVICE	-	-	-	-	28,206	-	26,713	-	1,493	-
ECONOMIC RESEARCH SERVICE	6,261	6,261	-	-	30,699	-	29,716	148	613	222
FOREST SERVICE	1,067	1,067	-	-	6,106	-	4,802	59	1,245	-
HUMAN NUTRITION INFORMATION SERVICE	300	300	-	-	-	-	-	-	-	-
STATISTICAL REPORTING SERVICE	8,000	8,000	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	13,910	6,223	3,864	3,823	3,566	-	1,389	183	294	1,700
BUREAU OF THE CENSUS	1,651	1,378	273	-	648	-	354	-	294	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	2,100	-	-	2,100	1,700	-	-	-	-	1,700
NATIONAL BUREAU OF STANDARDS	7,747	4,407	1,617	1,723	802	-	802	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,096	438	658	-	400	-	233	167	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,316	-	1,316	-	16	-	-	16	-	-
DEPARTMENT OF DEFENSE, TOTAL	120,223	13,896	79,368	26,959	980	-	144	-	836	-
DEPARTMENT OF THE ARMY	7,837	1,374	6,293	170	980	-	144	-	836	-
DEPARTMENT OF THE NAVY	18,922	-	11,105	7,817	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	29,411	5,000	21,003	3,408	-	-	-	-	-	-
DEFENSE AGENCIES	64,053	7,522	40,967	15,564	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,914	4,814	100	-	117,395	405	10,855	759	20,629	84,747
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	100	-	100	-	18,303	405	87	559	13,057	4,195
HEALTH CARE FINANCING ADMIN	-	-	-	-	30,000	-	-	-	-	30,000
HUMAN DEVELOPMENT SERVICES	-	-	-	-	20,577	-	-	-	-	20,577
NATIONAL INSTITUTES OF HEALTH	4,547	4,547	-	-	6,100	-	-	-	-	6,100
OFFICE OF ASST'T SECY FOR HEALTH	267	267	-	-	8,222	-	675	200	3,247	4,100
OFFICE OF THE SECRETARY	-	-	-	-	14,418	-	10,093	-	4,325	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	19,775	-	-	-	-	19,775
DEPT OF HOUSING & URBAN DEVELOPMENT	-	-	-	-	11,916	-	11,606	-	-	310
DEPARTMENT OF THE INTERIOR, TOTAL	3,523	2,072	1,451	-	1,382	716	90	-	368	208
BUREAU OF MINES	1,900	1,900	-	-	-	-	-	-	-	-
BUREAU OF RECLAMATION	-	-	-	-	86	-	20	-	66	-
GEOLOGICAL SURVEY	1,560	172	1,388	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	3	-	3	-	1,226	716	-	-	302	208
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	60	-	60	-	70	-	70	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	8,228	-	900	500	1,550	5,278
FEDERAL PRISON SYSTEM	-	-	-	-	1,307	-	400	-	250	657
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	709	-	-	-	-	709
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	6,212	-	500	500	1,300	3,912
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	9,441	-	9,441	-	-	-
BUREAU OF LABOR STATISTICS	-	-	-	-	315	-	315	-	-	-
EMPLOYMENT STANDARDS ADMINISTRATION	-	-	-	-	1,900	-	1,900	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	626	-	626	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	5,700	-	5,700	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	900	-	900	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,615	-	300	-	-	1,315
DEPARTMENTAL FUNDS	-	-	-	-	1,615	-	300	-	-	1,315

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TABLE C-70. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE-MATICS	COMPUTER SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES NEC	TOTAL	ANTHRO-POLOGY	ECONOM-ICS	POLITI-CAL SCIENCE	SOCI-OLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	1,144	-	1,144	-	12,039	-	7,519	-	4,520	-
FEDERAL RAILROAD ADMINISTRATION	12	-	12	-	5	-	5	-	-	-
MARITIME ADMINISTRATION	500	-	500	-	460	-	460	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	-	-	-	-	9,527	-	5,630	-	3,897	-
OFFICE OF THE SECRETARY	-	-	-	-	450	-	450	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	632	-	632	-	1,597	-	974	-	623	-
DEPARTMENT OF THE TREASURY, TOTAL	2,814	1,803	1,011	-	2,011	-	2,011	-	-	-
INTERNAL REVENUE SERVICE	2,814	1,803	1,011	-	2,011	-	2,011	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,925	-	963	962	-	-
FEDERAL COMMUNICATIONS COMMISSION	-	-	-	-	154	-	146	-	-	8
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	904	723	181	-	2,531	-	904	723	904	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,497	-	1,497	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	195	-	195	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	-	-	-	-	20,081	-	-	-	-	20,081
GENERAL SERVICES ADMINISTRATION	970	-	970	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	530	-	530	-	750	-	-	-	400	350
AGENCY FOR INTERNAT'L DEVELOPMENT ..	530	-	530	-	750	-	-	-	400	350
INTERNATIONAL TRADE COMMISSION	-	-	-	-	3,994	-	3,994	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	3,330	2,320	900	110	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,977	144	1,833	-	6,004	10	3,350	219	519	1,906
US ARMS CONTROL & DISARMAMENT AGENCY .	205	-	160	45	260	-	30	230	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-71. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	22,704,591	4,694,552	14,302,330	1,062,550	557,803	887,913	415,014	457,527	92,899	234,003
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	32,974	29,471	521	-	2,334	-	104	-	162	382
AGRICULTURAL MARKETING SERVICE	220	220	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	26,163	22,903	521	-	2,334	-	104	-	162	139
FOREST SERVICE	6,196	6,196	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	310	67	-	-	-	-	-	-	-	243
OFFICE OF TRANSPORTATION	85	85	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	3,583,170	422,292	1,197,943	997,982	57,336	680,180	39,384	151,967	15,500	20,586
BUREAU OF THE CENSUS	899	899	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	26,300	2,390	1,909	-	3,000	-	7,938	-	11,063	-
ENERGY RESEARCH & TECHNOLOGY ADMIN 2/	3,504,620	374,010	1,192,077	997,982	52,391	680,113	31,057	151,967	4,437	20,586
NATIONAL BUREAU OF STANDARDS	16,312	14,686	1,619	-	7	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	32,855	28,123	2,338	-	1,938	67	389	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,077	1,077	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	1,107	1,107	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	13,907,749	3,253,691	9,819,811	55,284	209,911	121,055	77,448	305,030	73	65,446
DEPARTMENT OF THE ARMY	2,707,704	874,445	1,778,221	3,573	8,973	22,854	10,695	7,612	73	1,258
DEPARTMENT OF THE NAVY	4,307,952	1,098,484	2,943,394	51,711	95,199	15,799	38,503	4,708	-	60,154
DEPARTMENT OF THE AIR FORCE	6,351,947	1,050,449	4,815,635	-	103,279	82,402	25,819	270,329	-	4,034
DEFENSE AGENCIES	499,095	192,552	282,561	-	2,322	-	2,431	19,229	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	41,051	37,761	-	-	138	-	-	3,152	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	434,900	80,956	44,792	9,284	184,771	1,535	94,879	197	13,884	4,602
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,753	1,203	-	-	-	-	550	-	-	-
HEALTH SERVICES ADMINISTRATION	10,084	2,818	-	-	1,362	-	5,342	-	562	-
HUMAN DEVELOPMENT SERVICES	33,810	2,704	6,313	-	10,187	-	11,210	-	3,396	-
NATIONAL INSTITUTES OF HEALTH	384,940	72,488	37,954	9,284	171,416	1,535	77,558	197	9,926	4,582
OFFICE OF ASST'T SECY FOR HEALTH	4,313	1,743	525	-	1,806	-	219	-	-	20
DEPT OF HOUSING & URBAN DEVELOPMENT	31,418	5,969	13,699	-	4,568	-	6,769	-	413	-
DEPARTMENT OF THE INTERIOR, TOTAL	57,268	26,796	22,155	-	5,036	219	2,145	137	650	130
BONNEVILLE POWER ADMINISTRATION	7,675	2,654	4,573	-	277	19	-	17	5	130
BUREAU OF LAND MANAGEMENT	397	197	-	-	200	-	-	-	-	-
BUREAU OF MINES	28,744	8,995	13,227	-	3,662	200	2,145	120	395	-
BUREAU OF RECLAMATION	927	925	-	-	2	-	-	-	-	-
GEOLOGICAL SURVEY	500	10	490	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	5,300	830	3,790	-	680	-	-	-	-	-
US FISH & WILDLIFE SERVICE	13,725	13,185	75	-	215	-	-	-	250	-
DEPARTMENT OF JUSTICE, TOTAL	7,024	2,182	1,868	-	1,507	-	467	-	1,000	-
DRUG ENFORCEMENT ADMINISTRATION	900	300	600	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	700	275	425	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	850	450	-	-	-	-	-	-	400	-
IMMIGRATION & NATURALIZATION SVC	76	47	29	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	135	35	53	-	47	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	4,363	1,075	761	-	1,460	-	467	-	600	-
DEPARTMENT OF LABOR, TOTAL	3,991	397	451	-	2,500	-	643	-	-	-
EMPLOYMENT & TRAINING ADMIN	3,591	347	101	-	2,500	-	643	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	400	50	350	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	160	45	115	-	-	-	-	-	-	-
DEPARTMENTAL FUNDS	160	45	115	-	-	-	-	-	-	-

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TABLE C-71. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	326,950	93,127	149,100	-	20,215	3,800	18,451	-	42,257	-
COAST GUARD	11,306	8,479	2,827	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	111,800	26,832	70,458	-	444	3,800	10,266	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	46,100	10,603	4,781	-	6,975	-	278	-	23,463	-
FEDERAL RAILROAD ADMINISTRATION	30,400	8,208	19,152	-	608	-	912	-	1,520	-
MARITIME ADMINISTRATION	4,660	82	4,040	-	335	-	203	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	36,500	1,620	24,020	-	2,730	-	2,702	-	5,428	-
OFFICE OF THE SECRETARY	9,384	6,008	3,240	-	136	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	7,900	3,250	2,863	-	1,787	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	68,900	28,045	17,719	-	7,200	-	4,090	-	11,846	-
DEPARTMENT OF THE TREASURY, TOTAL	6,087	1,802	4,100	-	39	-	-	146	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	200	54	-	-	-	-	-	146	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,805	1,630	175	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	12	12	-	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	640	4	636	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	3,430	102	3,289	-	39	-	-	-	-	-
OTHER AGENCIES										
APPALACHIAN REGIONAL COMMISSION	95	75	20	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	16,388	1,500	-	-	-	-	14,888	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	318	268	50	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	107,400	44,572	27,192	-	3,785	-	16,169	-	15,682	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,511	1,487	88	-	3	-	900	-	33	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	51,074	10,100	3,650	-	19,141	-	16,515	-	1,575	93
GENERAL SERVICES ADMINISTRATION	220	220	-	-	-	-	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	338	33	17	-	130	-	158	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	47,830	2,073	5,323	-	13,608	-	130	-	-	26,696
AGENCY FOR INTERNAT'L DEVELOPMENT ..	47,830	2,073	5,323	-	13,608	-	130	-	-	26,696
LIBRARY OF CONGRESS	4,000	3,700	300	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	3,999,444	654,823	3,009,847	-	26,348	81,124	111,144	50	40	116,068
NATIONAL SCIENCE FOUNDATION	6,100	420	235	-	4,255	-	1,000	-	190	-
OFFICE OF PERSONNEL MANAGEMENT	4,977	2,860	258	-	419	-	-	-	1,440	-
TENNESSEE VALLEY AUTHORITY	54,700	40,880	-	-	-	-	13,820	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	805	10	795	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	16,700	14,803	-	-	1,897	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-72. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	26,359,141	5,492,761	17,237,525	1,059,379	586,619	870,577	414,676	403,125	78,285	216,194
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	32,024	28,031	777	-	2,748	-	45	-	69	354
AGRICULTURAL MARKETING SERVICE	286	286	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	26,207	22,862	577	-	2,548	-	45	-	69	106
FOREST SERVICE	4,415	4,415	-	-	-	-	-	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	700	300	200	-	200	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	320	72	-	-	-	-	-	-	-	248
OFFICE OF TRANSPORTATION	96	96	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	3,102,176	339,223	1,048,703	997,395	32,100	605,351	17,690	36,785	11,060	13,869
BUREAU OF THE CENSUS	986	986	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMINISTRATION	6,500	1,600	300	-	1,900	-	1,700	-	1,000	-
ENERGY RESEARCH & TECHNOLOGY ADMIN 2/	3,041,224	292,148	1,041,877	997,395	28,065	605,351	15,674	36,785	10,060	13,869
NATIONAL BUREAU OF STANDARDS	18,468	15,842	2,419	-	207	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	33,189	26,818	4,107	-	1,928	-	316	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	1,195	1,195	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	634	634	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	17,719,132	4,168,066	12,543,276	52,751	268,291	145,087	117,397	366,018	64	58,182
DEPARTMENT OF THE ARMY	3,118,702	1,065,214	1,996,079	1,829	7,022	26,684	12,322	8,981	64	507
DEPARTMENT OF THE NAVY	5,049,575	1,119,554	3,652,040	50,922	98,310	22,335	48,688	5,615	-	52,111
DEPARTMENT OF THE AIR FORCE	8,763,352	1,628,325	6,495,263	-	160,425	96,068	53,475	324,232	-	5,564
DEFENSE AGENCIES	736,603	310,197	398,394	-	2,403	-	2,912	22,697	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	50,900	44,776	1,500	-	131	-	-	4,493	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	413,753	73,703	43,135	9,158	181,953	1,502	87,539	172	11,724	4,867
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,500	1,000	-	-	-	-	500	-	-	-
HEALTH SERVICES ADMINISTRATION	2,033	132	-	-	521	-	1,080	-	300	-
HUMAN DEVELOPMENT SERVICES	26,227	2,516	5,114	-	8,703	-	7,966	-	1,938	-
NATIONAL INSTITUTES OF HEALTH	381,600	69,191	37,778	9,158	171,567	1,502	77,888	172	9,486	4,858
OFFICE OF ASST'T SECY FOR HEALTH	2,383	864	243	-	1,162	-	105	-	-	9
DEPT OF HOUSING & URBAN DEVELOPMENT	21,461	4,040	9,258	-	3,120	-	4,678	-	365	-
DEPARTMENT OF THE INTERIOR, TOTAL	53,554	24,668	21,042	-	4,964	200	2,000	100	580	-
BONNEVILLE POWER ADMINISTRATION	7,773	2,118	5,472	-	183	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	430	230	-	-	200	-	-	-	-	-
BUREAU OF MINES	24,766	7,610	11,000	-	3,556	200	2,000	100	300	-
BUREAU OF RECLAMATION	415	415	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	500	10	490	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	5,525	800	4,000	-	725	-	-	-	-	-
US FISH & WILDLIFE SERVICE	14,145	13,485	80	-	300	-	-	-	280	-
DEPARTMENT OF JUSTICE, TOTAL	10,841	2,439	5,425	-	970	-	1,065	-	942	-
DRUG ENFORCEMENT ADMINISTRATION	2,400	600	1,800	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	2,149	275	1,874	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	950	550	-	-	-	-	-	-	400	-
IMMIGRATION & NATURALIZATION SVC	900	47	853	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	101	1	80	-	20	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	4,341	966	818	-	950	-	1,065	-	542	-
DEPARTMENT OF LABOR, TOTAL	1,561	146	915	-	200	-	300	-	-	-
EMPLOYMENT & TRAINING ADMIN	984	112	372	-	200	-	300	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	577	34	543	-	-	-	-	-	-	-

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TABLE C-72. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	258,661	71,289	116,840	-	15,257	3,697	15,956	-	35,622	-
COAST GUARD	7,875	3,623	4,252	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	93,600	25,491	54,288	-	273	3,697	9,851	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	44,900	10,327	4,645	-	6,805	-	269	-	22,854	-
FEDERAL RAILROAD ADMINISTRATION	29,500	7,965	18,585	-	590	-	885	-	1,475	-
MARITIME ADMINISTRATION	2,786	200	2,186	-	-	-	300	-	100	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	32,500	1,444	21,387	-	2,430	-	2,406	-	4,833	-
OFFICE OF THE SECRETARY	3,390	2,865	425	-	100	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	6,700	4,036	1,345	-	1,319	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	37,410	15,338	9,727	-	3,740	-	2,245	-	6,360	-
DEPARTMENT OF THE TREASURY, TOTAL	5,587	2,191	3,321	75	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,607	2,091	516	-	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	45	5	40	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	2,935	95	2,765	75	-	-	-	-	-	-
OTHER AGENCIES										
APPALACHIAN REGIONAL COMMISSION	100	50	-	-	-	-	-	-	50	-
CONSUMER PRODUCT SAFETY COMMISSION ...	163	163	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	100,500	38,894	24,723	-	2,814	-	17,576	-	16,493	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	43,413	3,886	2,850	-	15,725	-	14,594	-	1,275	83
GENERAL SERVICES ADMINISTRATION	280	280	-	-	-	-	-	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	304	83	9	-	94	-	118	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	54,446	2,240	4,739	-	24,008	-	720	-	-	22,739
AGENCY FOR INTERNAT'L DEVELOPMENT ..	54,446	2,240	4,739	-	24,008	-	720	-	-	22,739
LIBRARY OF CONGRESS	4,600	4,200	400	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	4,456,487	660,625	3,411,859	-	33,000	114,740	120,072	50	41	116,100
OFFICE OF PERSONNEL MANAGEMENT	2,998	2,835	163	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	62,600	47,674	-	-	-	-	14,926	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	100	10	90	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	14,400	13,025	-	-	1,375	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-73. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	29,708,899	5,761,507	20,305,452	1,033,981	589,868	855,205	444,230	464,747	63,895	190,014
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	30,744	26,199	950	-	3,131	-	45	-	69	350
AGRICULTURAL RESEARCH SERVICE	26,207	22,300	750	-	2,931	-	45	-	69	112
FOREST SERVICE	3,430	3,430	-	-	-	-	-	-	-	-
HUMAN NUTRITION INFORMATION SERVICE	700	300	200	-	200	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEV	313	75	-	-	-	-	-	-	-	238
OFFICE OF TRANSPORTATION	94	94	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	2,493,671	120,854	776,548	966,803	14,005	569,508	14,392	18,090	2,806	10,665
BUREAU OF THE CENSUS	1,074	1,074	-	-	-	-	-	-	-	-
ENERGY RESEARCH & TECHNOLOGY ADMIN 2/	2,445,082	78,365	773,012	966,803	11,684	569,508	14,149	18,090	2,806	10,665
NATIONAL BUREAU OF STANDARDS	8,205	8,205	-	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	37,618	31,518	3,536	-	2,321	-	243	-	-	-
NAT'L TELECOMM & INFORMATION ADMIN	998	998	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	694	694	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	21,193,568	4,717,476	15,316,728	56,982	308,144	158,995	167,083	435,013	67	33,080
DEPARTMENT OF THE ARMY	3,885,703	1,213,156	2,591,705	2,274	12,421	28,594	26,872	10,036	67	578
DEPARTMENT OF THE NAVY	5,400,090	1,210,429	3,914,549	54,708	92,918	26,251	67,342	7,810	-	26,083
DEPARTMENT OF THE AIR FORCE	10,698,805	1,685,953	8,251,707	-	198,384	104,150	66,128	386,064	-	6,419
DEFENSE AGENCIES	1,150,570	555,646	557,067	-	4,421	-	6,741	26,695	-	-
DIRECTOR OF TEST & EVALUATION, DEFENSE	58,400	52,292	1,700	-	-	-	-	4,408	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	414,500	73,311	40,149	10,096	180,449	1,792	85,194	201	18,169	5,139
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,710	1,135	-	-	-	-	575	-	-	-
HUMAN DEVELOPMENT SERVICES	22,159	2,188	1,487	-	6,412	-	4,094	-	7,678	-
NATIONAL INSTITUTES OF HEALTH	388,300	69,282	38,442	10,096	172,735	1,792	80,130	201	10,491	5,131
OFFICE OF ASST'T SECY FOR HEALTH	2,331	706	220	-	1,302	-	95	-	-	8
DEPT OF HOUSING & URBAN DEVELOPMENT	18,640	3,508	8,041	-	2,710	-	4,064	-	317	-
DEPARTMENT OF THE INTERIOR, TOTAL	46,005	24,237	14,825	-	4,143	200	2,000	100	500	-
BONNEVILLE POWER ADMINISTRATION	10,266	3,238	6,735	-	293	-	-	-	-	-
BUREAU OF LAND MANAGEMENT	430	330	-	-	100	-	-	-	-	-
BUREAU OF MINES	21,046	7,146	8,000	-	3,400	200	2,000	100	200	-
BUREAU OF RECLAMATION	778	778	-	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	13,485	12,745	90	-	350	-	-	-	300	-
DEPARTMENT OF JUSTICE, TOTAL	6,690	1,473	3,847	-	420	-	200	-	750	-
DRUG ENFORCEMENT ADMINISTRATION	1,300	400	900	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	1,099	275	824	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	950	550	-	-	-	-	-	-	400	-
IMMIGRATION & NATURALIZATION SVC	200	47	153	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	101	1	80	-	20	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	3,040	200	1,890	-	400	-	200	-	350	-
DEPARTMENT OF LABOR, TOTAL	465	58	407	-	-	-	-	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	465	58	407	-	-	-	-	-	-	-

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TABLE C-73. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	293,165	67,317	155,795	-	14,320	-	9,390	11,293	34,550	-
COAST GUARD	6,825	3,481	3,344	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	143,500	29,515	98,024	-	488	-	4,180	11,293	-	-
FEDERAL HIGHWAY ADMINISTRATION	46,600	10,718	4,738	-	7,145	-	280	-	23,719	-
FEDERAL RAILROAD ADMINISTRATION	16,600	4,482	10,458	-	332	-	498	-	830	-
MARITIME ADMINISTRATION	4,040	200	3,400	-	-	-	200	-	240	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	36,500	1,622	24,020	-	2,730	-	2,702	-	5,426	-
OFFICE OF THE SECRETARY	7,200	3,204	3,896	-	100	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	6,400	3,640	1,285	-	1,475	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	25,500	10,455	6,630	-	2,550	-	1,530	-	4,335	-
DEPARTMENT OF THE TREASURY, TOTAL	3,430	485	2,845	100	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	430	385	45	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	3,000	100	2,800	100	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION ...	401	326	75	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	70,100	34,652	15,575	-	1,844	-	12,678	-	5,351	-
FOUNDATION FOR EDUCATION ASSISTANCE 3/	42,415	8,584	2,850	-	15,030	-	14,676	-	1,275	-
INTERNATIONAL COMMUNICATION AGENCY ...	4	2	2	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	40,415	1,370	2,662	-	11,072	-	631	-	-	24,680
AGENCY FOR INTERNAT'L DEVELOPMENT ..	40,415	1,370	2,662	-	11,072	-	631	-	-	24,680
LIBRARY OF CONGRESS	4,600	4,200	400	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	4,981,168	609,992	3,963,398	-	33,000	124,710	133,877	50	41	116,100
OFFICE OF PERSONNEL MANAGEMENT	2,918	2,753	165	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	50,800	50,800	-	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	200	10	190	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	15,000	13,900	-	-	1,100	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

3/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-74. FEDERAL FUNDS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1981	ESTIMATES		1981	ESTIMATES	
		1982	1983		1982	1983
TOTAL, ALL AGENCIES	1,485,710	1,483,865	1,298,599	1,606,726	1,695,281	1,207,922
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	20,750	34,646	30,238	39,026	39,384	33,911
AGRICULTURAL RESEARCH SERVICE	17,550	34,261	20,988	35,826	36,660	31,192
COOPERATIVE STATE RESEARCH SERVICE	-	-	8,800	-	-	1,760
FOREST SERVICE	3,200	385	450	3,200	2,724	959
DEPARTMENT OF COMMERCE, TOTAL	979,524	984,054	693,048	1,085,809	1,182,503	646,093
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	978,194	975,091	689,785	1,084,468	1,175,092	643,128
NATIONAL BUREAU OF STANDARDS	503	8,963	3,263	514	7,411	2,965
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	827	-	-	827	-	-
DEPARTMENT OF DEFENSE, TOTAL	277,700	285,200	365,900	238,500	248,200	320,200
DEPARTMENT OF THE ARMY	12,800	27,800	32,900	8,900	13,300	23,800
DEPARTMENT OF THE NAVY	97,900	110,500	127,200	92,200	95,700	115,600
DEPARTMENT OF THE AIR FORCE	159,600	138,300	199,000	130,000	130,600	174,000
DEFENSE AGENCIES	7,400	8,600	6,800	7,400	8,600	6,800
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	23,711	34,847	54,600	42,630	33,892	34,974
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	230	6,792	100	130	1,092	3,774
FOOD & DRUG ADMINISTRATION	1,200	2,000	35,000	500	1,000	3,500
NATIONAL INSTITUTES OF HEALTH	22,281	26,055	19,500	42,000	31,800	27,700
DEPARTMENT OF THE INTERIOR, TOTAL	3,453	1,739	1,723	4,101	2,005	1,623
BONNEVILLE POWER ADMINISTRATION	274	369	323	274	369	323
BUREAU OF MINES	629	334	-	2,077	300	300
OFFICE OF WATER RESEARCH & TECHNOLOGY	750	536	-	750	536	-
UNITED STATES FISH AND WILDLIFE SERVICE	1,800	500	1,400	1,000	800	1,000
DEPARTMENT OF TRANSPORTATION, TOTAL	18,914	14,342	9,400	16,200	19,800	8,100
FEDERAL AVIATION ADMINISTRATION	8,900	6,000	8,800	6,100	4,300	6,200
FEDERAL HIGHWAY ADMINISTRATION	14	42	-	2,800	4,300	-
FEDERAL RAILROAD ADMINISTRATION	9,500	7,700	-	6,800	10,600	1,300
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	500	600	600	500	600	600
DEPARTMENT OF THE TREASURY, TOTAL	50	50	50	50	50	50
UNITED STATES CUSTOMS SERVICE	50	50	50	50	50	50
OTHER AGENCIES						
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	8,012	7,890	7,900	6,204	9,274	12,022
AGENCY FOR INTERNATIONAL DEVELOPMENT	8,012	7,890	7,900	6,204	9,274	12,022
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	115,750	98,700	100,000	146,905	134,900	121,800
NATIONAL SCIENCE FOUNDATION	14,626	10,950	24,082	12,700	9,500	15,200
NUCLEAR REGULATORY COMMISSION	7,659	6,900	6,200	7,276	6,624	5,828
SMITHSONIAN INSTITUTION	400	1,307	725	400	999	720
TENNESSEE VALLEY AUTHORITY	400	800	500	400	800	500
VETERANS ADMINISTRATION	14,761	2,440	4,233	6,525	7,350	6,901

1/ THE 1982 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-75. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	1,485,710	467,960	302,100	246,549	37,047	370,878	41,311	15,065	-	4,800
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	20,750	20,750	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	17,550	17,550	-	-	-	-	-	-	-	-
FOREST SERVICE	3,200	3,200	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	979,524	15,100	292,532	241,192	21,763	355,104	39,227	14,606	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	978,194	14,916	292,189	241,192	20,960	355,104	39,227	14,606	-	-
NATIONAL BUREAU OF STANDARDS	503	160	343	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	827	24	-	-	803	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	277,700	270,445	1,238	-	4,967	1,048	2	-	-	-
DEPARTMENT OF THE ARMY	12,800	12,800	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	97,900	97,900	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	159,600	159,600	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	7,400	145	1,238	-	4,967	1,048	2	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	23,711	21,684	-	-	2,027	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	230	230	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	1,200	1,200	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	22,281	20,254	-	-	2,027	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	3,453	2,703	750	-	-	-	-	-	-	-
BONNEVILLE POWER ADMINISTRATION	274	274	-	-	-	-	-	-	-	-
BUREAU OF MINES	629	629	-	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	750	-	750	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	1,800	1,800	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	18,914	12,454	6,460	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	8,900	8,900	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	14	14	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	9,500	3,040	6,460	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	500	500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	50	50	-	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	50	50	-	-	-	-	-	-	-	-
OTHER AGENCIES										
INTERNAT'L DEV COOPERATION AGENCY	8,012	10	1,120	-	-	-	2,082	-	-	4,800
AGENCY FOR INTERNAT'L DEVELOPMENT	8,012	10	1,120	-	-	-	2,082	-	-	4,800
NATIONAL AERONAUTICS & SPACE ADMIN	115,750	103,271	-	-	-	12,479	-	-	-	-
NATIONAL SCIENCE FOUNDATION	14,626	5,906	-	-	8,036	684	-	-	-	-
NUCLEAR REGULATORY COMMISSION	7,659	26	-	5,357	254	1,563	-	459	-	-
SMITHSONIAN INSTITUTION	400	400	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	400	400	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	14,761	14,761	-	-	-	-	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-76. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1982 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	1,483,865	460,277	188,806	294,691	32,948	433,233	61,600	8,090	-	4,220
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	34,646	34,646	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	34,261	34,261	-	-	-	-	-	-	-	-
FOREST SERVICE	385	385	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	984,054	11,397	180,305	290,559	20,470	414,836	59,082	7,405	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	975,091	9,677	173,062	290,559	20,470	414,836	59,082	7,405	-	-
NATIONAL BUREAU OF STANDARDS	8,963	1,720	7,243	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	285,200	277,136	1,319	-	5,152	1,575	18	-	-	-
DEPARTMENT OF THE ARMY	27,800	27,800	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	110,500	110,500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	138,300	138,300	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	8,600	536	1,319	-	5,152	1,575	18	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	34,847	33,847	-	-	1,000	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	6,792	6,792	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	2,000	2,000	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	26,055	25,055	-	-	1,000	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,739	1,203	536	-	-	-	-	-	-	-
BONNEVILLE POWER ADMINISTRATION	369	369	-	-	-	-	-	-	-	-
BUREAU OF MINES	334	334	-	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	536	-	536	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	500	500	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	14,342	9,106	5,236	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	6,000	6,000	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	42	42	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	7,700	2,464	5,236	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	600	600	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	50	50	-	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	50	50	-	-	-	-	-	-	-	-
OTHER AGENCIES										
INTERNAT'L DEV COOPERATION AGENCY	7,890	10	1,160	-	-	-	2,500	-	-	4,220
AGENCY FOR INTERNAT'L DEVELOPMENT	7,890	10	1,160	-	-	-	2,500	-	-	4,220
NATIONAL AERONAUTICS & SPACE ADMIN	98,700	85,685	-	-	-	13,015	-	-	-	-
NATIONAL SCIENCE FOUNDATION	10,950	2,550	-	-	6,250	2,150	-	-	-	-
NUCLEAR REGULATORY COMMISSION	6,900	100	250	4,132	76	1,657	-	685	-	-
SMITHSONIAN INSTITUTION	1,307	1,307	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	800	800	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	2,440	2,440	-	-	-	-	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-77. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1983 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	1,298,599	559,203	73,140	189,474	45,898	274,477	146,242	5,315	-	4,850
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	30,238	21,790	-	-	8,448	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	20,988	20,988	-	-	-	-	-	-	-	-
COOPERATIVE STATE RESEARCH SERVICE	8,800	352	-	-	8,448	-	-	-	-	-
FOREST SERVICE	450	450	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	693,048	7,155	70,863	185,754	13,574	266,717	144,290	4,695	-	-
ENERGY RESEARCH AND TECHNOLOGY ADMIN 1/	689,785	5,534	69,221	185,754	13,574	266,717	144,290	4,695	-	-
NATIONAL BUREAU OF STANDARDS	3,263	1,621	1,642	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	365,900	359,520	929	-	5,364	75	12	-	-	-
DEPARTMENT OF THE ARMY	32,900	32,900	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	127,200	127,200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	199,000	199,000	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	6,800	420	929	-	5,364	75	12	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	54,600	53,600	-	-	1,000	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	100	100	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	35,000	35,000	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	19,500	18,500	-	-	1,000	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	1,723	1,723	-	-	-	-	-	-	-	-
BONNEVILLE POWER ADMINISTRATION	323	323	-	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	1,400	1,400	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	9,400	9,400	-	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	8,800	8,800	-	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	600	600	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	50	50	-	-	-	-	-	-	-	-
UNITED STATES CUSTOMS SERVICE	50	50	-	-	-	-	-	-	-	-
OTHER AGENCIES										
INTERNAT'L DEV COOPERATION AGENCY	7,900	10	1,100	-	-	-	1,940	-	-	4,850
AGENCY FOR INTERNAT'L DEVELOPMENT	7,900	10	1,100	-	-	-	1,940	-	-	4,850
NATIONAL AERONAUTICS & SPACE ADMIN	100,000	95,485	-	-	-	4,515	-	-	-	-
NATIONAL SCIENCE FOUNDATION	24,082	4,950	-	-	17,450	1,682	-	-	-	-
NUCLEAR REGULATORY COMMISSION	6,200	62	248	3,720	62	1,488	-	620	-	-
SMITHSONIAN INSTITUTION	725	725	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	500	500	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	4,233	4,233	-	-	-	-	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-78. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1981	ESTIMATES	
		1982	1983
TOTAL, ALL FIELDS	3,706,877	3,818,075	4,006,448
LIFE SCIENCES, TOTAL	2,117,191	2,208,823	2,267,668
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,116,265	1,160,436	1,182,289
ENVIRONMENTAL BIOLOGY	38,323	39,204	42,359
AGRICULTURAL	139,572	154,574	160,693
MEDICAL	754,112	783,212	811,188
LIFE SCIENCES, NEC	68,919	71,397	71,139
PSYCHOLOGY, TOTAL	92,715	89,414	99,711
BIOLOGICAL ASPECTS	29,645	28,120	32,877
SOCIAL ASPECTS	32,105	29,647	34,528
PSYCHOLOGICAL SCIENCES, NEC	30,965	31,647	32,306
PHYSICAL SCIENCES, TOTAL	525,167	545,101	593,007
ASTRONOMY	47,886	51,793	51,206
CHEMISTRY	193,477	192,040	208,517
PHYSICS	274,504	291,728	325,735
PHYSICAL SCIENCES, NEC	9,300	9,540	7,549
ENVIRONMENTAL SCIENCES, TOTAL	280,329	284,017	300,480
ATMOSPHERIC	82,690	84,069	82,296
GEOLOGICAL	71,424	70,407	76,035
OCEANOGRAPHY	109,459	115,186	130,347
ENVIRONMENTAL SCIENCES, NEC	16,756	14,355	11,802
MATHEMATICS & COMPUTER SCIENCES, TOTAL	121,389	141,632	168,606
MATHEMATICS	59,485	64,320	73,096
COMPUTER SCIENCES	50,169	66,472	80,670
MATHEMATICS & COMPUTER SCIENCES, NEC	11,735	10,840	14,840
ENGINEERING, TOTAL	365,346	368,504	392,563
AERONAUTICAL	39,277	40,819	44,810
ASTRONAUTICAL	8,752	7,947	9,431
CHEMICAL	21,896	21,244	23,254
CIVIL	24,910	27,361	25,849
ELECTRICAL	86,087	90,217	101,071
MECHANICAL	36,331	39,327	42,887
METALLURGY & MATERIALS	69,505	74,115	83,377
ENGINEERING, NEC	78,588	67,474	61,884
SOCIAL SCIENCES, TOTAL	136,377	121,245	124,138
ANTHROPOLOGY	5,793	5,229	5,460
ECONOMICS	48,931	50,734	49,381
POLITICAL SCIENCE	4,008	2,912	2,957
SOCIOLOGY	24,937	21,008	22,547
SOCIAL SCIENCES, NEC	52,708	41,362	43,793
OTHER SCIENCES, NEC	68,363	59,339	60,275

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981, 1982, AND 1983.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-79. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	3,706,877	2,117,191	92,715	525,167	280,329	121,389	365,346	136,377	68,363
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	240,383	176,497	-	12,186	1,719	1,492	8,394	40,095	-
AGRICULTURAL COOPERATIVE SERVICE	526	-	-	-	-	-	-	526	-
AGRICULTURAL MARKETING SERVICE	30	30	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	32,546	25,326	-	3,871	233	249	2,669	198	-
COOPERATIVE STATE RESEARCH SERVICE	191,573	139,356	-	8,315	1,045	-	5,725	37,132	-
ECONOMIC RESEARCH SERVICE	1,847	-	-	-	-	284	-	1,563	-
FOREST SERVICE	13,013	11,785	-	-	441	111	-	676	-
STATISTICAL REPORTING SERVICE	848	-	-	-	-	848	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	362,966	30,035	13,552	66,827	54,454	56,138	141,309	258	393
DEPARTMENT OF THE ARMY	55,545	13,076	1,158	10,615	4,418	5,990	20,112	22	154
DEPARTMENT OF THE NAVY	133,402	8,562	5,959	30,443	41,436	17,680	29,322	-	-
DEPARTMENT OF THE AIR FORCE	134,487	8,197	5,726	24,327	7,150	9,509	79,436	-	142
DEFENSE AGENCIES	39,532	200	709	1,442	1,450	22,959	12,439	236	97
DEPARTMENT OF ENERGY	248,338	33,974	-	140,357	20,664	4,593	47,250	1,000	500
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,000,154	1,740,055	67,885	51,351	-	3,975	32,959	65,076	38,853
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	116,316	55,363	38,913	465	-	-	84	17,070	4,421
CENTERS FOR DISEASE CONTROL	6,394	6,394	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	5,726	5,726	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	10,075	-	-	-	-	-	-	10,075	-
HEALTH RESOURCES ADMINISTRATION	4,516	-	-	-	-	-	-	-	4,516
HEALTH SERVICES ADMINISTRATION	2,503	2,503	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	23,739	9,744	1,298	-	-	-	3,731	8,966	-
NATIONAL INSTITUTES OF HEALTH	1,812,950	1,660,325	27,674	50,886	-	3,975	29,144	11,030	29,916
OFFICE OF ASST'T SECY FOR HEALTH	12,585	-	-	-	-	-	-	12,585	-
OFFICE OF THE SECRETARY	1,515	-	-	-	-	-	-	1,515	-
SOCIAL SECURITY ADMINISTRATION	3,835	-	-	-	-	-	-	3,835	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	157,152	9,994	1,053	57,697	47,470	3,003	34,600	199	3,136
NATIONAL SCIENCE FOUNDATION	697,884	126,636	10,225	196,749	156,022	52,188	100,834	29,749	25,481

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-80. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	92,715	29,645	32,105	30,965	2,117,191	1,116,265	38,323	139,572	754,112	68,919
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	176,497	28,625	1,036	139,074	7,762	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	30	-	-	30	-	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	25,326	2,000	1,036	22,085	205	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	139,356	14,840	-	116,959	7,557	-
FOREST SERVICE	-	-	-	-	11,785	11,785	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	13,552	53	13,172	327	30,035	15,497	1,504	92	12,901	41
DEPARTMENT OF THE ARMY	1,158	2	1,108	48	13,076	1,267	275	92	11,401	41
DEPARTMENT OF THE NAVY	5,959	-	5,800	159	8,562	7,169	-	-	1,393	-
DEPARTMENT OF THE AIR FORCE	5,726	-	5,726	-	8,197	6,861	1,229	-	107	-
DEFENSE AGENCIES	709	51	538	120	200	200	-	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	33,974	25,466	-	-	5,018	3,490
DEPT OF HLTH & HUMAN SERVICES, TOTAL	67,885	22,471	15,652	29,762	1,740,055	951,266	64	-	726,201	62,524
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	38,913	22,471	15,652	790	55,363	33,437	64	-	18,647	3,215
CENTERS FOR DISEASE CONTROL	-	-	-	-	6,394	-	-	-	6,394	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	5,726	5,039	-	-	687	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	2,503	-	-	-	2,503	-
HUMAN DEVELOPMENT SERVICES	1,298	-	-	1,298	9,744	-	-	-	8,622	1,122
NATIONAL INSTITUTES OF HEALTH	27,674	-	-	27,674	1,660,325	912,790	-	-	689,348	58,187
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	1,053	128	99	826	9,994	4,167	494	399	2,230	2,704
NATIONAL SCIENCE FOUNDATION	10,225	6,993	3,182	50	126,636	91,244	35,225	7	-	160

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-81. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONO-MY	CHEM-ISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	525,167	47,886	193,477	274,504	9,300	280,329	82,690	71,424	109,459	16,756
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	12,186	-	11,933	253	-	1,719	1,519	200	-	-
AGRICULTURAL RESEARCH SERVICE	3,871	-	3,618	253	-	233	172	61	-	-
COOPERATIVE STATE RESEARCH SERVICE	8,315	-	8,315	-	-	1,045	1,045	-	-	-
FOREST SERVICE	-	-	-	-	-	441	302	139	-	-
DEPARTMENT OF DEFENSE, TOTAL	66,827	4,558	23,411	37,997	861	54,454	11,325	3,630	34,904	4,595
DEPARTMENT OF THE ARMY	10,615	-	5,598	4,721	296	4,418	2,965	1,325	31	97
DEPARTMENT OF THE NAVY	30,443	2,010	8,761	19,672	-	41,436	2,494	-	34,444	4,498
DEPARTMENT OF THE AIR FORCE	24,327	2,548	8,910	12,557	312	7,150	5,817	1,333	-	-
DEFENSE AGENCIES	1,442	-	142	1,047	253	1,450	49	972	429	-
DEPARTMENT OF ENERGY	140,357	-	27,181	110,563	2,613	20,664	3,423	9,108	6,661	1,472
DEPT OF HLTH & HUMAN SERVICES, TOTAL	51,351	-	49,491	1,860	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	465	-	465	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	50,886	-	49,026	1,860	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	57,697	27,454	5,939	19,274	5,030	47,470	27,054	12,179	1,337	6,900
NATIONAL SCIENCE FOUNDATION	196,749	15,874	75,522	104,557	796	156,022	39,369	46,307	66,557	3,789

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-82. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	365,346	39,277	8,752	21,896	24,910	86,087	36,331	69,505	78,588
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	8,394	-	-	241	184	21	87	-	7,861
AGRICULTURAL RESEARCH SERVICE	2,669	-	-	241	184	21	87	-	2,136
COOPERATIVE STATE RESEARCH SERVICE	5,725	-	-	-	-	-	-	-	5,725
DEPARTMENT OF DEFENSE, TOTAL	141,309	24,427	6,702	3,188	2,915	55,428	17,476	29,200	1,973
DEPARTMENT OF THE ARMY	20,112	1,492	25	279	1,891	8,102	3,247	4,907	169
DEPARTMENT OF THE NAVY	29,322	747	-	2,434	94	11,895	7,570	6,413	169
DEPARTMENT OF THE AIR FORCE	79,436	22,188	6,677	427	820	30,174	6,503	11,445	1,202
DEFENSE AGENCIES	12,439	-	-	48	110	5,257	156	6,435	433
DEPARTMENT OF ENERGY	47,250	-	792	1,504	529	2,847	2,837	13,080	25,661
DEPT OF HLTH & HUMAN SERVICES, TOTAL	32,959	-	-	-	-	-	-	-	32,959
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	84	-	-	-	-	-	-	-	84
HUMAN DEVELOPMENT SERVICES	3,731	-	-	-	-	-	-	-	3,731
NATIONAL INSTITUTES OF HEALTH	29,144	-	-	-	-	-	-	-	29,144
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	34,600	14,850	1,122	265	112	4,256	4,034	5,723	4,238
NATIONAL SCIENCE FOUNDATION	100,834	-	136	16,698	21,170	23,535	11,897	21,502	5,896

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-83. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE-MATICS	COMPUTER SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES NEC	TOTAL	ANTHRO-POLOGY	ECONOM-ICS	POLITI-CAL SCIENCE	SOCI-OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	121,389	59,485	50,169	11,735	136,377	5,793	48,931	4,008	24,937	52,708
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,492	1,492	-	-	40,095	61	37,947	12	2,021	54
AGRICULTURAL COOPERATIVE SERVICE	-	-	-	-	526	-	526	-	-	-
AGRICULTURAL RESEARCH SERVICE	249	249	-	-	198	61	85	-	5	47
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	37,132	-	35,167	-	1,965	-
ECONOMIC RESEARCH SERVICE	284	284	-	-	1,563	-	1,493	12	51	7
FOREST SERVICE	111	111	-	-	676	-	676	-	-	-
STATISTICAL REPORTING SERVICE	848	848	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	56,138	20,991	26,211	8,936	258	-	-	236	22	-
DEPARTMENT OF THE ARMY	5,990	4,469	1,476	45	22	-	-	-	22	-
DEPARTMENT OF THE NAVY	17,680	9,053	8,383	244	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	9,509	5,149	3,948	412	-	-	-	-	-	-
DEFENSE AGENCIES	22,959	2,320	12,404	8,235	236	-	-	236	-	-
DEPARTMENT OF ENERGY	4,593	3,350	1,073	170	1,000	-	-	-	-	1,000
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,975	3,975	-	-	65,076	556	2,5[illegible]	811	19,558	41,216
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	-	-	-	-	17,070	556	140	756	13,070	2,548
HEALTH CARE FINANCING ADMIN	-	-	-	-	10,075	-	-	-	-	10,075
HUMAN DEVELOPMENT SERVICES	-	-	-	-	8,966	-	-	-	-	8,966
NATIONAL INSTITUTES OF HEALTH	3,975	3,975	-	-	11,030	-	-	-	-	11,030
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	12,585	-	1,733	55	6,035	4,762
OFFICE OF THE SECRETARY	-	-	-	-	1,515	-	1,062	-	453	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	3,835	-	-	-	-	3,835
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	3,003	862	1,283	858	199	-	-	-	-	199
NATIONAL SCIENCE FOUNDATION	52,188	28,815	21,602	1,771	29,749	5,176	8,049	2,949	3,336	10,239

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 95 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-84. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1981	ESTIMATES	
		1982	1983
TOTAL, ALL FIELDS	2,478,961	2,597,548	2,744,821
LIFE SCIENCES, TOTAL	1,314,624	1,378,327	1,423,207
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	776,872	809,468	828,500
ENVIRONMENTAL BIOLOGY	36,674	37,802	40,649
AGRICULTURAL	62,242	66,828	73,792
MEDICAL	394,480	418,371	433,346
LIFE SCIENCES, NEC	44,356	45,858	46,920
PSYCHOLOGY, TOTAL	56,151	56,367	61,832
BIOLOGICAL ASPECTS	17,229	16,096	18,086
SOCIAL ASPECTS	18,771	19,482	22,421
PSYCHOLOGICAL SCIENCES, NEC	20,151	20,789	21,325
PHYSICAL SCIENCES, TOTAL	434,744	454,788	494,285
ASTRONOMY	42,409	46,457	45,861
CHEMISTRY	164,696	167,485	183,045
PHYSICS	222,397	235,777	260,947
PHYSICAL SCIENCES, NEC	5,242	5,069	4,432
ENVIRONMENTAL SCIENCES, TOTAL	241,573	248,864	267,543
ATMOSPHERIC	67,363	69,062	68,498
GEOLOGICAL	61,827	62,352	67,522
OCEANOGRAPHY	100,659	108,118	124,259
ENVIRONMENTAL SCIENCES, NEC	11,724	9,332	7,264
MATHEMATICS & COMPUTER SCIENCES, TOTAL	102,610	119,426	132,778
MATHEMATICS	55,266	61,234	70,051
COMPUTER SCIENCES	40,588	51,743	55,195
MATHEMATICS & COMPUTER SCIENCES, NEC	6,756	6,449	7,532
ENGINEERING, TOTAL	237,252	258,188	278,275
AERONAUTICAL	22,596	24,966	25,859
ASTRONAUTICAL	945	946	955
CHEMICAL	19,807	19,106	21,016
CIVIL	17,441	20,163	18,057
ELECTRICAL	52,922	59,660	65,372
MECHANICAL	28,639	31,811	37,374
METALLURGY & MATERIALS	62,583	69,039	76,411
ENGINEERING, NEC	32,319	32,497	33,231
SOCIAL SCIENCES, TOTAL	58,653	53,897	57,025
ANTHROPOLOGY	5,470	4,912	5,122
ECONOMICS	19,981	20,577	20,102
POLITICAL SCIENCE	3,300	2,339	2,364
SOCIOLOGY	11,396	9,238	9,868
SOCIAL SCIENCES, NEC	18,506	16,831	19,569
OTHER SCIENCES, NEC	33,354	27,691	29,876

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981, 1982, AND 1983.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-85. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	2,478,961	1,314,624	56,151	434,744	241,573	102,610	237,252	58,653	33,354
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	107,901	79,192	-	5,490	764	160	2,932	14,363	-
AGRICULTURAL RESEARCH SERVICE	16,234	12,682	-	2,413	104	155	814	66	-
COOPERATIVE STATE RESEARCH SERVICE	80,660	61,339	-	3,077	387	-	2,118	13,739	-
ECONOMIC RESEARCH SERVICE	168	-	-	-	-	-	-	168	-
FOREST SERVICE	5,839	5,171	-	-	273	5	-	390	-
DEPARTMENT OF DEFENSE, TOTAL	244,405	14,300	10,652	49,892	44,842	43,222	81,241	256	-
DEPARTMENT OF THE ARMY	36,923	3,561	1,039	9,742	3,013	5,311	14,237	20	-
DEPARTMENT OF THE NAVY	119,083	7,635	5,800	22,767	39,149	16,859	26,873	-	-
DEPARTMENT OF THE AIR FORCE	63,351	3,104	3,172	17,143	2,320	5,697	31,915	-	-
DEFENSE AGENCIES	25,048	-	641	240	360	15,355	8,216	236	-
DEPARTMENT OF ENERGY	133,656	12,162	-	97,472	3,095	4,423	16,504	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,205,602	1,076,086	35,187	38,176	-	2,230	20,162	19,979	13,782
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	49,205	23,659	16,224	233	-	-	35	6,533	2,521
HUMAN DEVELOPMENT SERVICES	130	-	-	-	-	-	-	130	-
NATIONAL INSTITUTES OF HEALTH	1,150,213	1,052,427	18,963	37,943	-	2,230	20,127	7,262	11,261
OFFICE OF ASST'T SECY FOR HEALTH	5,484	-	-	-	-	-	-	5,484	-
OFFICE OF THE SECRETARY	570	-	-	-	-	-	-	570	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	124,418	8,267	864	48,599	38,236	1,934	24,355	199	1,964
NATIONAL SCIENCE FOUNDATION	667,979	124,617	9,448	195,115	154,636	50,641	92,058	23,856	17,608

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-86. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	56,151	17,229	13,771	20,151	1,314,624	776,872	36,674	62,242	394,480	44,356
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	79,192	14,049	437	61,886	2,820	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	12,682	1,501	437	10,720	24	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	61,339	7,377	-	51,166	2,796	-
FOREST SERVICE	-	-	-	-	5,171	5,171	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	10,652	53	10,431	168	14,300	10,334	1,155	-	2,811	-
DEPARTMENT OF THE ARMY	1,039	2	989	48	3,561	1,172	118	-	2,271	-
DEPARTMENT OF THE NAVY	5,800	-	5,800	-	7,635	7,095	-	-	540	-
DEPARTMENT OF THE AIR FORCE	3,172	-	3,172	-	3,104	2,067	1,037	-	-	-
DEFENSE AGENCIES	641	51	470	120	-	-	-	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	12,162	11,962	-	-	-	200
DEPT OF HLTH & HUMAN SERVICES, TOTAL	35,187	10,213	5,653	19,321	1,076,086	646,499	36	-	387,611	41,940
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	16,224	10,213	5,653	358	23,659	16,127	36	-	6,534	962
NATIONAL INSTITUTES OF HEALTH	18,963	-	-	18,963	1,052,427	630,372	-	-	381,077	40,978
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	864	128	99	637	8,267	4,049	494	349	1,238	2,137
NATIONAL SCIENCE FOUNDATION	9,448	6,835	2,588	25	124,617	89,979	34,552	7	-	79

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-87. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	437,744	42,409	164,696	222,397	5,242	241,573	67,363	61,827	100,659	11,724
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	5,490	-	5,383	107	-	764	670	94	-	-
AGRICULTURAL RESEARCH SERVICE	2,413	-	2,306	107	-	104	81	23	-	-
COOPERATIVE STATE RESEARCH SERVICE	3,077	-	3,077	-	-	387	387	-	-	-
FOREST SERVICE	-	-	-	-	-	273	202	71	-	-
DEPARTMENT OF DEFENSE, TOTAL	49,892	4,558	20,725	24,415	194	44,842	5,210	1,906	33,224	4,502
DEPARTMENT OF THE ARMY	9,742	-	4,982	4,566	194	3,013	1,941	1,068	-	4
DEPARTMENT OF THE NAVY	22,767	2,010	8,761	11,996	-	39,149	1,649	-	33,002	4,498
DEPARTMENT OF THE AIR FORCE	17,143	2,548	6,840	7,755	-	2,320	1,620	700	-	-
DEFENSE AGENCIES	240	-	142	98	-	360	-	138	222	-
DEPARTMENT OF ENERGY	97,472	-	21,536	75,436	500	3,095	-	2,795	-	300
DEPT OF HLTH & HUMAN SERVICES, TOTAL	38,176	-	36,869	1,307	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	233	-	233	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	37,943	-	36,636	1,307	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	48,599	22,029	5,364	17,112	4,094	38,236	22,129	11,428	1,237	3,442
NATIONAL SCIENCE FOUNDATION	195,115	15,822	74,819	104,020	454	154,636	39,354	45,604	66,198	3,480

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-88. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	237,252	22,596	945	19,807	17,441	52,922	28,639	62,583	32,319
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	2,932	-	-	96	51	5	24	-	2,756
AGRICULTURAL RESEARCH SERVICE	814	-	-	96	51	5	24	-	638
COOPERATIVE STATE RESEARCH SERVICE	2,118	-	-	-	-	-	-	-	2,118
DEPARTMENT OF DEFENSE, TOTAL	81,241	10,673	-	2,424	751	28,399	13,785	25,205	4
DEPARTMENT OF THE ARMY	14,237	1,099	-	57	220	6,447	2,015	4,395	4
DEPARTMENT OF THE NAVY	26,873	555	-	2,319	31	10,988	6,706	6,274	-
DEPARTMENT OF THE AIR FORCE	31,915	9,019	-	-	500	8,176	4,945	9,275	-
DEFENSE AGENCIES	8,216	-	-	48	-	2,788	119	5,261	-
DEPARTMENT OF ENERGY	16,504	-	-	1,173	-	-	1,820	11,430	2,081
DEPT OF HLTH & HUMAN SERVICES, TOTAL	20,162	-	-	-	-	-	-	-	20,162
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	35	-	-	-	-	-	-	-	35
NATIONAL INSTITUTES OF HEALTH	20,127	-	-	-	-	-	-	-	20,127
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	24,355	11,923	824	253	112	2,281	1,794	5,255	1,913
NATIONAL SCIENCE FOUNDATION	92,058	-	121	15,861	16,527	22,237	11,216	20,693	5,403

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-89. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	102,610	55,266	40,588	6,756	58,653	5,470	19,981	3,300	11,396	18,506
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	160	160	-	-	14,363	60	13,546	2	750	5
AGRICULTURAL RESEARCH SERVICE	155	155	-	-	66	60	1	-	-	5
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	13,739	-	13,012	-	727	-
ECONOMIC RESEARCH SERVICE	-	-	-	-	168	-	143	2	23	-
FOREST SERVICE	5	5	-	-	390	-	390	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	43,222	20,009	18,059	5,154	256	-	-	236	20	-
DEPARTMENT OF THE ARMY	5,311	4,432	879	-	20	-	-	-	20	-
DEPARTMENT OF THE NAVY	16,859	9,053	7,562	244	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	5,697	4,637	1,060	-	-	-	-	-	-	-
DEFENSE AGENCIES	15,355	1,887	8,558	4,910	236	-	-	236	-	-
DEPARTMENT OF ENERGY	4,423	3,350	1,073	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	2,230	2,230	-	-	19,979	246	1,215	349	7,646	10,523
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	-	-	-	-	6,533	246	60	325	4,846	1,056
HUMAN DEVELOPMENT SERVICES	-	-	-	-	130	-	-	-	-	130
NATIONAL INSTITUTES OF HEALTH	2,230	2,230	-	-	7,262	-	-	-	-	7,262
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	5,484	-	755	24	2,630	2,075
OFFICE OF THE SECRETARY	-	-	-	-	570	-	400	-	170	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	1,934	776	423	735	199	-	-	-	-	199
NATIONAL SCIENCE FOUNDATION	50,641	28,741	21,033	867	23,856	5,164	5,220	2,713	2,980	7,779

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-90. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1981	ESTIMATES	
		1982	1983
TOTAL, ALL FIELDS	1,227,916	1,220,527	1,261,627
LIFE SCIENCES, TOTAL	802,567	830,496	844,461
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	339,393	350,968	353,789
ENVIRONMENTAL BIOLOGY	1,649	1,402	1,710
AGRICULTURAL	77,330	87,746	86,901
MEDICAL	359,632	364,841	377,842
LIFE SCIENCES, NEC	24,563	25,539	24,219
PSYCHOLOGY, TOTAL	36,564	33,047	37,879
BIOLOGICAL ASPECTS	12,416	12,024	14,791
SOCIAL ASPECTS	13,334	10,165	12,107
PSYCHOLOGICAL SCIENCES, NEC	10,814	10,858	10,981
PHYSICAL SCIENCES, TOTAL	90,423	90,313	98,722
ASTRONOMY	5,477	5,336	5,345
CHEMISTRY	28,781	24,555	25,472
PHYSICS	52,107	55,951	64,788
PHYSICAL SCIENCES, NEC	4,058	4,471	3,117
ENVIRONMENTAL SCIENCES, TOTAL	38,756	35,153	32,937
ATMOSPHERIC	15,327	15,007	13,798
GEOLOGICAL	9,597	8,055	8,513
OCEANOGRAPHY	8,800	7,068	6,088
ENVIRONMENTAL SCIENCES, NEC	5,032	5,023	4,538
MATHEMATICS & COMPUTER SCIENCES, TOTAL	18,779	22,206	35,828
MATHEMATICS	4,219	3,086	3,045
COMPUTER SCIENCES	9,581	14,729	25,475
MATHEMATICS & COMPUTER SCIENCES, NEC	4,979	4,391	7,308
ENGINEERING, TOTAL	128,094	110,316	114,288
AERONAUTICAL	16,681	15,853	18,951
ASTRONAUTICAL	7,807	7,001	8,476
CHEMICAL	2,089	2,138	2,238
CIVIL	7,469	7,198	7,792
ELECTRICAL	33,165	30,557	35,699
MECHANICAL	7,692	7,516	5,513
METALLURGY & MATERIALS	6,922	5,076	6,966
ENGINEERING, NEC	46,269	34,977	28,653
SOCIAL SCIENCES, TOTAL	77,724	67,348	67,113
ANTHROPOLOGY	323	317	338
ECONOMICS	28,950	30,157	29,279
POLITICAL SCIENCE	708	573	593
SOCIOLOGY	13,541	11,770	12,679
SOCIAL SCIENCES, NEC	34,202	24,531	24,224
OTHER SCIENCES, NEC	35,009	31,648	30,399

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 89 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981, 1982, AND 1983.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-91. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	1,227,916	802,567	36,564	90,423	38,756	18,779	128,094	77,724	35,009
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	137,482	97,305	-	6,696	955	1,332	5,462	25,732	-
AGRICULTURAL COOPERATIVE SERVICE	526	-	-	-	-	-	-	526	-
AGRICULTURAL MARKETING SERVICE	30	30	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH SERVICE	16,312	12,644	-	1,458	129	94	1,855	132	-
COOPERATIVE STATE RESEARCH SERVICE	110,913	78,017	-	5,238	658	-	3,607	23,393	-
ECONOMIC RESEARCH SERVICE	1,679	-	-	-	-	284	-	1,395	-
FOREST SERVICE	7,174	6,614	-	-	168	106	-	286	-
STATISTICAL REPORTING SERVICE	848	-	-	-	-	848	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	118,561	15,735	2,900	16,935	9,612	12,916	60,068	2	393
DEPARTMENT OF THE ARMY	18,622	9,515	119	873	1,405	679	5,875	2	154
DEPARTMENT OF THE NAVY	14,319	927	159	7,676	2,287	821	2,449	-	-
DEPARTMENT OF THE AIR FORCE	71,136	5,093	2,554	7,184	4,830	3 812	47,521	-	142
DEFENSE AGENCIES	14,484	200	68	1,202	1,090	7,604	4,223	-	97
DEPARTMENT OF ENERGY	114,682	21,812	-	42,885	17,569	170	30,746	1,000	500
DEPT OF HLTH & HUMAN SERVICES, TOTAL	794,552	663,969	32,698	13,175	-	1,745	12,797	45,097	25,071
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	67,111	31,704	22,689	232	-	-	49	10,537	1,900
CENTERS FOR DISEASE CONTROL	6,394	6,394	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	5,726	5,726	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	10,075	-	-	-	-	-	-	10,075	-
HEALTH RESOURCES ADMINISTRATION	4,516	-	-	-	-	-	-	-	4,516
HEALTH SERVICES ADMINISTRATION	2,503	2,503	-	-	-	-	-	-	-
HUMAN DEVELOPMENT SERVICES	23,609	9,744	1,298	-	-	-	3,731	8,836	-
NATIONAL INSTITUTES OF HEALTH	662,737	607,898	8,711	12,943	-	1,745	9,017	3,768	18,655
OFFICE OF ASST'T SECY FOR HEALTH	7,101	-	-	-	-	-	-	7,101	-
OFFICE OF THE SECRETARY	945	-	-	-	-	-	-	945	-
SOCIAL SECURITY ADMINISTRATION	3,835	-	-	-	-	-	-	3,835	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	32,734	1,727	189	9,098	9,234	1,069	10,245	-	1,172
NATIONAL SCIENCE FOUNDATION	29,905	2,019	777	1,634	1,386	1,547	8,776	5,893	7,873

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 87 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-92. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	36,564	12,416	13,334	10,814	802,567	339,393	1,649	77,330	359,632	24,563
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	97,305	14,576	599	77,188	4,942	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	30	-	-	30	-	-
AGRICULTURAL RESEARCH SERVICE	-	-	-	-	12,644	499	599	11,365	181	-
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	78,017	7,463	-	65,793	4,761	-
FOREST SERVICE	-	-	-	-	6,614	6,614	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,900	-	2,741	159	15,735	5,163	349	92	10,090	41
DEPARTMENT OF THE ARMY	119	-	119	-	9,515	95	157	92	9,130	41
DEPARTMENT OF THE NAVY	159	-	-	159	927	74	-	-	853	-
DEPARTMENT OF THE AIR FORCE	2,554	-	2,554	-	5,093	4,794	192	-	107	-
DEFENSE AGENCIES	68	-	68	-	200	200	-	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	21,812	13,504	-	-	5,018	3,290
DEPT OF HLTH & HUMAN SERVICES, TOTAL	32,698	12,258	9,999	10,441	663,969	304,767	28	-	338,590	20,584
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	22,689	12,258	9,999	432	31,704	17,310	28	-	12,113	2,253
CENTERS FOR DISEASE CONTROL	-	-	-	-	6,394	-	-	-	6,394	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	5,726	5,039	-	-	687	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	2,503	-	-	-	2,503	-
HUMAN DEVELOPMENT SERVICES	1,298	-	-	1,298	9,744	-	-	-	8,622	1,122
NATIONAL INSTITUTES OF HEALTH	8,711	-	-	8,711	607,898	282,418	-	-	308,271	17,209
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	189	-	-	189	1,727	118	-	50	992	567
NATIONAL SCIENCE FOUNDATION	777	158	594	25	2,019	1,265	673	-	-	81

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 87 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-93. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONO-MY	CHEM-ISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	90,423	5,477	28,781	52,107	4,058	38,756	15,327	9,597	8,800	5,032
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	6,696	-	6,550	146	-	955	849	106	-	-
AGRICULTURAL RESEARCH SERVICE	1,458	-	1,312	146	-	129	91	38	-	-
COOPERATIVE STATE RESEARCH SERVICE	5,238	-	5,238	-	-	658	658	-	-	-
FOREST SERVICE	-	-	-	-	-	168	100	68	-	-
DEPARTMENT OF DEFENSE, TOTAL	16,935	-	2,686	13,582	667	9,612	6,115	1,724	1,680	93
DEPARTMENT OF THE ARMY	873	-	616	155	102	1,405	1,024	257	31	93
DEPARTMENT OF THE NAVY	7,676	-	-	7,676	-	2,287	845	-	1,442	-
DEPARTMENT OF THE AIR FORCE	7,184	-	2,070	4,802	312	4,830	4,197	633	-	-
DEFENSE AGENCIES	1,202	-	-	949	253	1,090	49	834	207	-
DEPARTMENT OF ENERGY	42,885	-	5,645	35,127	2,113	17,569	3,423	6,313	6,661	1,172
DEPT OF HLTH & HUMAN SERVICES, TOTAL	13,175	-	12,622	553	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	232	-	232	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	12,943	-	12,390	553	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	9,098	5,425	575	2,162	936	9,234	4,925	751	100	3,458
NATIONAL SCIENCE FOUNDATION	1,634	52	703	537	342	1,386	15	703	359	309

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 87 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-94. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	128,094	16,681	7,807	2,089	7,469	33,165	7,692	6,922	46,269
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	5,462	-	-	145	133	16	63	-	5,105
AGRICULTURAL RESEARCH SERVICE	1,855	-	-	145	133	16	63	-	1,498
COOPERATIVE STATE RESEARCH SERVICE	3,607	-	-	-	-	-	-	-	3,607
DEPARTMENT OF DEFENSE, TOTAL	60,068	13,754	6,702	764	2,164	27,029	3,691	3,995	1,969
DEPARTMENT OF THE ARMY	5,875	393	25	222	1,671	1,655	1,232	512	165
DEPARTMENT OF THE NAVY	2,449	192	-	115	63	907	864	139	169
DEPARTMENT OF THE AIR FORCE	47,521	13,169	6,677	427	320	21,998	1,558	2,170	1,202
DEFENSE AGENCIES	4,223	-	-	-	110	2,469	37	1,174	433
DEPARTMENT OF ENERGY	30,746	-	792	331	529	2,847	1,017	1,650	23,580
DEPT OF HLTH & HUMAN SERVICES, TOTAL	12,797	-	-	-	-	-	-	-	12,797
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	49	-	-	-	-	-	-	-	49
HUMAN DEVELOPMENT SERVICES	3,731	-	-	-	-	-	-	-	3,731
NATIONAL INSTITUTES OF HEALTH	9,017	-	-	-	-	-	-	-	9,017
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	10,245	2,927	298	12	-	1,975	2,240	468	2,325
NATIONAL SCIENCE FOUNDATION	8,776	-	15	837	4,643	1,298	681	809	493

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 87 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-95. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	18,779	4,219	9,581	4,979	77,724	323	28,950	708	13,541	34,202
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,332	1,332	-	-	25,732	1	24,401	10	1,271	49
AGRICULTURAL COOPERATIVE SERVICE	-	-	-	-	526	-	526	-	-	-
AGRICULTURAL RESEARCH SERVICE	94	94	-	-	132	1	84	-	5	42
COOPERATIVE STATE RESEARCH SERVICE	-	-	-	-	23,393	-	22,155	-	1,238	-
ECONOMIC RESEARCH SERVICE	284	284	-	-	1,395	-	1,350	10	28	7
FOREST SERVICE	106	106	-	-	286	-	286	-	-	-
STATISTICAL REPORTING SERVICE	848	848	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	12,916	982	8,152	3,782	2	-	-	-	2	-
DEPARTMENT OF THE ARMY	679	37	597	45	2	-	-	-	2	-
DEPARTMENT OF THE NAVY	821	-	821	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	3,812	512	2,888	412	-	-	-	-	-	-
DEFENSE AGENCIES	7,604	433	3,846	3,325	-	-	-	-	-	-
DEPARTMENT OF ENERGY	170	-	-	170	1,000	-	-	-	-	1,000
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,745	1,745	-	-	45,097	310	1,720	462	11,912	30,693
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	-	-	-	-	10,537	310	80	431	8,224	1,492
HEALTH CARE FINANCING ADMIN	-	-	-	-	10,075	-	-	-	-	10,075
HUMAN DEVELOPMENT SERVICES	-	-	-	-	8,836	-	-	-	-	8,836
NATIONAL INSTITUTES OF HEALTH	1,745	1,745	-	-	3,768	-	-	-	-	3,768
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	7,101	-	978	31	3,405	2,687
OFFICE OF THE SECRETARY	-	-	-	-	945	-	662	-	283	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	3,835	-	-	-	-	3,835
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	1,069	86	860	123	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,547	74	569	904	5,893	12	2,829	236	356	2,460

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 87 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-96. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF HEALTH AND HUMAN SERVICES	INTERNAT'L DEVELOPMENT COOPERATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL SCIENCE FOUNDATION	OTHER
TOTAL	339,975	5,008	80,594	28,754	69,209	1,157	2,213	153,040
EUROPE, TOTAL	194,415	1,216	69,491	7,949	-	5	216	115,538
AUSTRIA	162	-	58	7	-	-	-	97
BELGIUM	651	-	455	196	-	-	-	-
DENMARK	386	-	157	124	-	-	68	37
FINLAND	347	-	-	347	-	-	-	-
FRANCE	99,040	465	903	299	-	-	50	97,323
ICELAND	128	-	-	-	-	-	-	128
IRELAND	130	-	120	10	-	-	-	-
ITALY	2,423	392	1,345	686	-	-	-	-
NETHERLANDS	749	309	96	344	-	-	-	-
NORWAY	5,810	-	5,282	38	-	-	-	490
POLAND	43	36	-	-	-	4	3	-
PORTUGAL	8	-	8	-	-	-	-	-
SPAIN	83	-	44	39	-	-	-	-
SWEDEN	3,293	-	14	1,533	-	-	-	1,746
SWITZERLAND	1,730	-	418	1,203	-	-	28	81
UNITED KINGDOM, TOTAL	70,613	-	57,739	2,444	-	-	67	10,363
ENGLAND	61,520	-	49,099	2,216	-	-	67	10,138
SCOTLAND	1,790	-	1,344	221	-	-	-	225
OTHER UNITED KINGDOM	7,303	-	7,296	7	-	-	-	-
WEST GERMANY	8,587	-	2,852	462	-	-	-	5,273
YUGOSLAVIA	207	14	-	192	-	1	-	-
OTHER EUROPE	25	-	-	25	-	-	-	-
ASIA, TOTAL	14,610	2,926	2,811	927	2,000	327	1,697	3,922
BURMA	27	-	6	-	-	-	-	21
INDIA	7,996	1,013	1,640	444	-	246	1,327	3,326
INDONESIA	9	-	9	-	-	-	-	-
JAPAN	525	108	-	417	-	-	-	-
SOUTH KOREA	118	-	106	12	-	-	-	-
MALAYSIA	451	-	451	-	-	-	-	-
PAKISTAN	2,873	1,708	599	10	-	81	370	105
THAILAND	141	97	-	44	-	-	-	-
OTHER ASIA	2,470	-	-	-	2,000	-	-	470
NEAR EAST, TOTAL	17,739	203	1,936	5,266	-	825	262	9,247
EGYPT	4,464	203	34	2,299	-	825	262	841
GREECE	12	-	12	-	-	-	-	-
ISRAEL	4,961	-	1,890	2,967	-	-	-	104
OTHER NEAR EAST	8,302	-	-	-	-	-	-	8,302
AFRICA, TOTAL	6,055	234	12	82	5,727	-	-	-
KENYA	187	187	-	-	-	-	-	-
UNION OF SOUTH AFRICA	41	-	-	41	-	-	-	-
OTHER AFRICA	5,827	47	12	41	5,727	-	-	-
LATIN AMERICA, TOTAL	7,907	263	508	216	5,300	-	-	1,620
ARGENTINA	412	192	89	131	-	-	-	-
BRAZIL	132	-	132	-	-	-	-	-
MEXICO	95	-	-	85	-	-	-	10
PANAMA	305	-	195	-	-	-	-	110
PERU	67	-	67	-	-	-	-	-
VENEZUELA	1,525	-	25	-	-	-	-	1,500
OTHER LATIN AMERICA	5,371	71	-	-	5,300	-	-	-
AUSTRALIA	2,089	-	239	1,606	-	-	-	244
CANADA	36,389	166	5,584	8,132	-	-	38	22,469
NEW ZEALAND	64	-	13	51	-	-	-	-
INTERNATIONAL ORGANIZATIONS	60,707	-	-	4,525	56,182	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-97. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF HEALTH AND HUMAN SERVICES	NATIONAL SCIENCE FOUNDATION	NATIONAL AERONAUTICS AND SPACE ADMIN	OTHER
TOTAL	31,178	2,018	8,931	11,121	1,674	2,452	4,982
EUROPE, TOTAL	8,231	397	3,968	3,401	213	101	151
AUSTRIA	116	-	19	-	-	-	97
BELGIUM	229	-	91	138	-	-	-
DENMARK	148	-	2	75	68	3	-
FINLAND	197	-	-	197	-	-	-
FRANCE	519	149	225	95	50	-	-
IRELAND	120	-	120	-	-	-	-
ITALY	384	127	105	152	-	-	-
NETHERLANDS	275	99	6	170	-	-	-
NORWAY	637	-	632	5	-	-	-
POLAND	16	16	-	-	-	-	-
PORTUGAL	8	-	8	-	-	-	.
SPAIN	49	-	14	35	-	-	-
SWEDEN	900	-	14	876	-	10	-
SWITZERLAND	526	-	54	444	28	-	-
UNITED KINGDOM, TOTAL	3,507	-	2,248	1,070	67	88	34
ENGLAND	3,232	-	2,105	938	67	88	34
SCOTLAND	176	-	45	131	-	-	-
OTHER UNITED KINGDOM	99	-	98	1	-	-	-
WEST GERMANY	551	-	430	101	-	-	20
YUGOSLAVIA	33	6	-	27	-	-	-
OTHER EUROPE	16	-	-	16	-	-	-
ASIA, TOTAL	8,407	1,263	2,254	78	1,290	70	3,452
BURMA	27	-	6	-	-	-	21
INDIA	6,457	446	1,640	-	1,045	-	3,326
INDONESIA	9	-	9	-	-	-	-
JAPAN	69	35	-	34	-	-	-
SOUTH KOREA	7	-	-	7	-	-	-
PAKISTAN	1,700	751	599	-	245	-	105
THAILAND	68	31	-	37	-	-	-
OTHER ASIA	70	-	-	-	-	70	-
NEAR EAST, TOTAL	3,715	89	863	1,701	133	5	924
EGYPT	1,200	89	34	103	133	-	841
GREECE	12	-	12	-	-	-	-
ISRAEL	2,503	-	817	1,598	-	5	83
AFRICA, TOTAL	90	81	-	9	-	-	-
KENYA	60	60	-	-	-	-	-
UNION OF SOUTH AFRICA	3	-	-	3	-	-	-
OTHER AFRICA	27	21	-	6	-	-	-
LATIN AMERICA, TOTAL	343	84	25	166	-	68	-
ARGENTINA	165	62	-	103	-	-	-
MEXICO	63	-	-	63	-	-	-
PANAMA	68	-	-	-	-	68	-
VENEZUELA	25	-	25	-	-	-	-
OTHER LATIN AMERICA	22	22	-	-	-	-	-
AUSTRALIA	1,029	-	60	962	-	7	-
CANADA	8,296	104	1,748	3,750	38	2,201	455
NEW ZEALAND	53	-	13	40	-	-	-
INTERNATIONAL ORGANIZATIONS	1,014	-	-	1,014	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-98. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1981		ESTIMATES			
			1982		1983	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	339,975	11,497	341,969	16,377	313,825	14,022
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	5,008	3,035	5,089	3,098	5,052	2,977
AGRICULTURAL RESEARCH SERVICE	1,807	-	1,836	-	1,934	-
FOREST SERVICE	166	-	155	-	141	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	3,035	3,035	3,098	3,098	2,977	2,977
DEPARTMENT OF COMMERCE, TOTAL	27,806	-	22,661	-	19,624	-
ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION 1/	27,061	-	22,518	-	19,594	-
NATIONAL BUREAU OF STANDARDS	433	-	-	-	-	-
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	312	-	86	-	30	-
OFFICE OF THE SECRETARY	-	-	57	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	80,594	200	77,638	4,100	53,277	3,400
DEPARTMENT OF THE ARMY	5,037	-	4,322	-	5,428	-
DEPARTMENT OF THE NAVY	63,932	200	58,296	4,100	29,192	3,400
DEPARTMENT OF THE AIR FORCE	10,052	-	11,354	-	13,286	-
DEFENSE AGENCIES	1,573	-	3,666	-	5,371	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	28,754	2,010	32,893	3,928	34,894	4,330
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	1,579	-	1,739	-	1,843	-
CENTERS FOR DISEASE CONTROL	994	650	1,988	1,688	2,080	1,880
HEALTH SERVICES ADMINISTRATION	227	227	587	587	565	565
HUMAN DEVELOPMENT SERVICES	980	-	1,945	-	1,473	-
NATIONAL INSTITUTES OF HEALTH	24,444	986	26,160	1,285	28,273	1,285
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	306	147	434	368	660	600
SOCIAL SECURITY ADMINISTRATION	224	-	40	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	721	591	540	540	500	500
BONNEVILLE POWER ADMINISTRATION	130	-	-	-	-	-
OFFICE OF THE SECRETARY	591	591	540	540	500	500
DEPARTMENT OF JUSTICE, TOTAL	94	-	-	-	-	-
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	94	-	-	-	-	-
OTHER AGENCIES						
ENVIRONMENTAL PROTECTION AGENCY	1,157	-	1,300	-	1,200	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	251	-	269	-	170	-
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	69,209	-	75,995	-	75,375	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	69,209	-	75,995	-	75,375	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	119,645	-	119,710	-	119,710	-
NATIONAL SCIENCE FOUNDATION	2,213	1,959	1,778	1,510	1,008	715
NUCLEAR REGULATORY COMMISSION	821	-	895	-	915	-
SMITHSONIAN INSTITUTION	3,702	3,702	3,201	3,201	2,100	2,100

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-99. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1981		ESTIMATES			
			1982		1983	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	31,178	7,174	33,101	10,312	31,047	7,875
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	2,018	1,335	2,338	1,363	2,323	1,310
AGRICULTURAL RESEARCH SERVICE	579	-	871	-	917	-
FOREST SERVICE	104	-	104	-	96	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	1,335	1,335	1,363	1,363	1,310	1,310
DEPARTMENT OF COMMERCE, TOTAL	559	-	24	-	24	-
ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION 1/	140	-	24	-	24	-
NATIONAL BUREAU OF STANDARDS	419	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	8,931	20	11,554	3,800	9,464	3,000
DEPARTMENT OF THE ARMY	2,084	-	2,340	-	2,733	-
DEPARTMENT OF THE NAVY	3,741	20	6,152	3,800	3,029	3,000
DEPARTMENT OF THE AIR FORCE	2,400	-	2,400	-	2,800	-
DEFENSE AGENCIES	706	-	662	-	902	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	11,121	103	11,550	258	13,322	420
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	1,120	-	837	-	862	-
NATIONAL INSTITUTES OF HEALTH	9,838	-	10,432	-	12,019	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	163	103	281	258	441	420
DEPARTMENT OF THE INTERIOR, TOTAL	591	591	540	540	500	500
OFFICE OF THE SECRETARY	591	591	540	540	500	500
DEPARTMENT OF JUSTICE, TOTAL	94	-	-	-	-	-
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	94	-	-	-	-	-
OTHER AGENCIES						
FOUNDATION FOR EDUCATION ASSISTANCE 2/	36	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	2,452	-	2,476	-	2,476	-
NATIONAL SCIENCE FOUNDATION	1,674	1,423	1,418	1,150	838	545
SMITHSONIAN INSTITUTION	3,702	3,702	3,201	3,201	2,100	2,100

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-100. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1981		ESTIMATES			
			1982		1983	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	74,794	3,900	92,674	5,517	92,764	5,509
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	2,608	1,457	2,397	1,487	2,379	1,429
AGRICULTURAL RESEARCH SERVICE	1,089	-	859	-	905	-
FOREST SERVICE	62	-	51	-	45	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	1,457	1,457	1,487	1,487	1,429	1,429
DEPARTMENT OF COMMERCE, TOTAL	6,661	-	8,768	-	8,935	-
ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION 1/	6,335	-	8,625	-	8,905	-
NATIONAL BUREAU OF STANDARDS	14	-	-	-	-	-
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	312	-	86	-	30	-
OFFICE OF THE SECRETARY	-	-	57	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	6,217	-	7,902	-	10,733	-
DEPARTMENT OF THE ARMY	1,695	-	1,475	-	2,117	-
DEPARTMENT OF THE NAVY	37	-	33	-	80	-
DEPARTMENT OF THE AIR FORCE	3,618	-	3,390	-	4,067	-
DEFENSE AGENCIES	867	-	3,004	-	4,469	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	13,031	1,907	16,476	3,670	16,433	3,910
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	459	-	902	-	981	-
CENTERS FOR DISEASE CONTROL	994	650	1,988	1,688	2,080	1,880
HEALTH SERVICES ADMINISTRATION	227	227	587	587	565	565
HUMAN DEVELOPMENT SERVICES	980	-	1,945	-	1,473	-
NATIONAL INSTITUTES OF HEALTH	10,024	986	10,870	1,285	11,123	1,285
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	123	44	144	110	211	180
SOCIAL SECURITY ADMINISTRATION	224	-	40	-	-	-
OTHER AGENCIES						
ENVIRONMENTAL PROTECTION AGENCY	1,157	-	1,300	-	1,200	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	122	-	186	-	170	-
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	42,513	-	53,256	-	50,695	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	42,513	-	53,256	-	50,695	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	1,125	-	1,134	-	1,134	-
NATIONAL SCIENCE FOUNDATION	539	536	360	360	170	170
NUCLEAR REGULATORY COMMISSION	821	-	895	-	915	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-101. FEDERAL OBLIGATIONS FOR DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1981		ESTIMATES			
			1982		1983	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	234,003	423	216,194	548	190,014	638
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	382	243	354	248	350	238
AGRICULTURAL RESEARCH SERVICE	139	-	106	-	112	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	243	243	248	248	238	238
DEPARTMENT OF COMMERCE, TOTAL	20,586	-	13,869	-	10,665	-
ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION 1/	20,586	-	13,869	-	10,665	-
DEPARTMENT OF DEFENSE, TOTAL	65,446	180	58,182	300	33,080	400
DEPARTMENT OF THE ARMY	1,258	-	507	-	578	-
DEPARTMENT OF THE NAVY	60,154	180	52,111	300	26,083	400
DEPARTMENT OF THE AIR FORCE	4,034	-	5,564	-	6,419	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	4,602	-	4,867	-	5,139	-
NATIONAL INSTITUTES OF HEALTH	4,582	-	4,858	-	5,131	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	20	-	9	-	8	-
DEPARTMENT OF THE INTERIOR, TOTAL	130	-	-	-	-	-
BONNEVILLE POWER ADMINISTRATION	130	-	-	-	-	-
OTHER AGENCIES						
FOUNDATION FOR EDUCATION ASSISTANCE 2/	93	-	83	-	-	-
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	26,696	-	22,739	-	24,680	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	26,696	-	22,739	-	24,680	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	116,068	-	116,100	-	116,100	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-102. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	RESEARCH, DEVELOPMENT AND R&D PLANT	RESEARCH AND DEVELOPMENT	R&D PLANT
TOTAL	35,180,938	33,726,510	1,454,428
NEW ENGLAND	3,250,170	3,195,964	54,206
CONNECTICUT	494,248	485,047	9,201
MAINE	24,384	24,371	13
MASSACHUSETTS	2,466,247	2,430,569	35,678
NEW HAMPSHIRE	62,451	54,765	7,686
RHODE ISLAND	184,092	182,478	1,614
VERMONT	18,748	18,734	14
MIDDLE ATLANTIC	3,652,080	3,415,973	236,107
NEW JERSEY	831,159	775,418	55,741
NEW YORK	1,642,804	1,557,684	85,120
PENNSYLVANIA	1,178,117	1,082,871	95,246
EAST NORTH CENTRAL	2,501,954	2,349,311	152,643
ILLINOIS	646,674	572,603	74,071
INDIANA	171,068	170,137	931
MICHIGAN	366,637	357,177	9,460
OHIO	1,182,388	1,117,179	65,209
WISCONSIN	135,187	132,215	2,972
WEST NORTH CENTRAL	1,836,777	1,829,644	7,133
IOWA	149,452	147,389	2,063
KANSAS	471,088	470,990	98
MINNESOTA	309,517	308,983	534
MISSOURI	822,160	820,378	1,782
NEBRASKA	32,248	31,663	585
NORTH DAKOTA	41,412	40,057	1,355
SOUTH DAKOTA	10,900	10,184	716
SOUTH ATLANTIC	7,408,589	7,238,327	170,262
DELAWARE	27,521	25,929	1,592
DISTRICT OF COLUMBIA	963,936	932,283	31,653
FLORIDA	1,659,506	1,634,032	25,474
GEORGIA	196,617	195,037	1,580
MARYLAND	2,835,771	2,783,448	52,323
NORTH CAROLINA	260,960	259,799	1,161
SOUTH CAROLINA	114,933	96,109	18,824
VIRGINIA	1,194,453	1,160,516	33,937
WEST VIRGINIA	154,892	151,174	3,718
EAST SOUTH CENTRAL	1,792,388	1,682,740	109,648
ALABAMA	589,078	572,597	16,481
KENTUCKY	105,318	101,049	4,269
MISSISSIPPI	128,893	125,499	3,394
TENNESSEE	969,099	883,595	85,504
WEST SOUTH CENTRAL	1,722,576	1,691,227	31,349
ARKANSAS	31,908	31,186	722
LOUISIANA	345,804	331,751	14,053
OKLAHOMA	85,091	82,423	2,668
TEXAS	1,259,773	1,245,867	13,906
MOUNTAIN	3,261,363	3,016,436	244,927
ARIZONA	368,061	367,680	381
COLORADO	659,691	632,817	26,874
IDAHO	131,440	119,524	11,916
MONTANA	45,500	45,405	95
NEVADA	345,883	262,979	82,904
NEW MEXICO	1,343,392	1,224,140	119,252
UTAH	307,136	305,657	1,479
WYOMING	60,260	58,234	2,026
PACIFIC	9,667,025	9,220,848	446,177
ALASKA	51,840	51,829	11
CALIFORNIA	8,321,391	7,965,966	355,425
HAWAII	50,619	49,897	722
OREGON	106,667	105,620	1,047
WASHINGTON	1,136,508	1,047,536	88,972
OUTLYING AREAS	39,545	38,885	660
OFFICES ABROAD	48,471	47,155	1,316

NOTE: THE OBLIGATIONS OF THE NINE MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 96 PERCENT OF TOTAL FEDERAL R&D AND R&D PLANT OBLIGATIONS IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-103. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL	33,726,510	8,353,343	16,194,265	1,289,924	4,352,453	1,794,781	1,021,924	505,807	213,813
CALIFORNIA	7,965,966	997,276	5,247,331	28,904	595,545	707,035	157,800	202,904	29,171
MARYLAND	2,783,448	1,805,724	687,989	26,366	217,254	-	39,546	228	6,341
MASSACHUSETTS	2,430,569	233,674	1,258,297	1,000	465,891	138,371	224,037	102,014	7,285
FLORIDA	1,634,032	539,436	1,007,493	-	75,994	-	6,652	-	4,457
NEW YORK	1,557,684	112,225	570,638	156,880	452,057	120,222	111,106	-	34,556
TEXAS	1,245,867	248,886	744,997	1	217,045	-	26,528	-	8,410
NEW MEXICO	1,224,140	222,961	157,164	433,242	39,169	358,365	11,216	-	1,923
VIRGINIA	1,160,516	491,181	540,069	-	63,646	13,497	32,793	16,854	2,476
OHIO	1,117,[illegible]	551,542	401,971	9,271	117,590	-	32,713	-	4,092
PENNSYLVANIA	1,082,[illegible]	294,177	278,870	216,326	226,406	-	60,703	-	6,389
WASHINGTON	1,047,536	78,442	650,120	123,250	104,610	-	21,721	63,926	5,467
DISTRICT OF COLUMBIA	932,283	700,988	95,900	-	47,501	1,242	82,845	-	3,807
TENNESSEE	883,595	75,664	524,239	189,147	62,135	23,854	6,651	-	1,905
MISSOURI	820,378	29,159	692,481	-	81,581	-	11,997	-	5,160
NEW JERSEY	775,418	292,879	347,160	-	59,207	66,196	4,087	-	5,889
COLORADO	632,817	98,327	286,533	-	78,264	32,337	11,237	119,881	6,238
ILLINOIS	572,6[illegible]	50,627	47,631	-	179,144	251,671	38,207	-	5,323
ALABAMA	572,59[illegible]	337,786	172,748	-	50,148	-	9,485	-	2,430
CONNECTICUT	485,047	17,357	346,008	4,200	107,347	-	5,745	-	4,390
KANSAS	470,990	5,754	436,883	-	25,736	-	1,565	-	1,052
ARIZONA	367,680	128,982	177,108	-	44,713	11,103	2,664	-	3,110
MICHIGAN	357,177	50,528	159,285	-	121,090	-	18,814	-	7,460
LOUISIANA	331,751	36,644	255,623	-	33,821	-	2,263	-	3,600
MINNESOTA	308,983	23,326	187,343	-	74,568	-	21,707	-	2,039
UTAH	305,657	43,107	201,607	-	57,199	-	953	-	2,791
NEVADA	262,579	32,481	215,222	-	6,530	-	7,616	-	1,130
NORTH CAROLINA	259,799	101,136	26,815	-	113,657	-	16,533	-	1,658
GEORGIA	195,037	58,287	57,775	-	68,043	-	7,347	-	3,585
RHODE ISLAND	182,478	129,913	15,267	-	28,531	-	7,159	-	1,608
INDIANA	170,137	39,172	53,023	-	75,775	-	1,054	-	1,113
WEST VIRGINIA	151,174	95,553	25,566	-	12,703	14,390	393	-	2,569
IOWA	147,389	12,466	70,982	-	46,367	15,956	611	-	1,007
WISCONSIN	132,215	19,250	5,587	-	103,494	-	2,425	-	1,459
MISSISSIPPI	125,499	72,610	24,570	-	[illegible],774	-	813	-	1,732
IDAHO	119,524	9,482	7,769	64,541	5,[illegible]60	29,588	350	-	2,234
OREGON	105,620	32,040	13,579	-	48 271	-	8,367	-	3,363
KENTUCKY	101,049	18,407	60,392	-	20,176	-	623	-	1,451
SOUTH CAROLINA	96,109	12,143	14,989	36,796	23,711	-	6,061	-	2,409
OKLAHOMA	82,423	45,652	12,103	-	20,396	-	2,882	-	1,390
WYOMING	58,234	49,100	142	-	8,767	-	-	-	225
NEW HAMPSHIRE	54,765	13,626	21,789	-	18,339	-	49	-	962
ALASKA	51,829	25,898	2,158	-	18,747	-	666	-	4,360
HAWAII	49,897	13,738	8,243	-	23,746	-	3,423	-	747
MONTANA	45,405	19,738	11,468	-	7,458	-	1,133	-	5,608
NORTH DAKOTA	40,057	23,391	7,711	-	7,395	-	-	-	1,560
NEBRASKA	31,663	9,231	[illegible],029	-	15,287	-	1,233	-	883
ARKANSAS	31,186	14,897	[illegible],892	-	11,459	19	623	-	2,296
MAINE	24,371	4,841	[illegible],251	-	5,326	-	6,394	-	1,559
DELAWARE	25,929	922	15,534	-	8,422	-	499	-	552
VERMONT	18,734	1,037	4,347	-	12,183	-	372	-	795
SOUTH DAKOTA	10,184	2,619	72	-	4,432	-	2,112	-	949
OUTLYING AREAS	38,885	14,301	5,808	-	12,509	[illegible],407	12	-	848
OFFICES ABROAD	47,155	14,760	24,694	-	2,134	5,528	39	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

NOTE: THE OBLIGATIONS OF THE NINE MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 96 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-103A. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH PERFORMER, BY STATE: FISCAL YEAR 1981

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA	23.6	11.9	32.4	2.2	13.7	39.4	15.4	40.1	13.6
MARYLAND	8.3	21.6	4.2	2.0	5.0	-	3.9	*	3.0
MASSACHUSETTS	7.2	2.8	7.8	.1	10.7	7.7	21.9	20.2	3.4
FLORIDA	4.8	6.5	6.2	-	1.7	-	.7	-	2.1
NEW YORK	4.6	1.3	3.5	12.2	10.4	6.7	10.9	-	16.2
TEXAS	3.7	3.0	4.6	*	5.0	-	2.6	-	3.9
NEW MEXICO	3.6	2.7	1.0	33.6	.9	20.0	1.1	-	.9
VIRGINIA	3.4	5.9	3.3	-	1.5	.8	3.2	3.3	1.2
OHIO	3.3	6.6	2.5	.7	2.7	-	3.2	-	1.9
PENNSYLVANIA	3.2	3.5	1.7	16.8	5.2	-	5.9	-	3.0
WASHINGTON	3.1	.9	4.0	9.6	2.4	-	2.1	12.6	2.6
DISTRICT OF COLUMBIA	2.8	8.4	.6	-	1.1	.1	8.1	-	1.8
TENNESSEE	2.6	.9	3.2	14.7	1.4	1.3	.7	-	.9
MISSOURI	2.4	.3	4.3	-	1.9	-	1.2	-	2.4
NEW JERSEY	2.3	3.5	2.1	-	1.4	3.7	.4	-	2.8
COLORADO	1.9	1.2	1.8	-	1.8	1.8	1.1	23.7	2.9
ILLINOIS	1.7	.6	.3	-	4.1	14.0	3.7	-	2.5
ALABAMA	1.7	4.0	1.1	-	1.2	-	.9	-	1.1
CONNECTICUT	1.4	.2	2.1	.3	2.5	-	.6	-	2.1
KANSAS	1.4	.1	2.7	-	.6	-	.2	-	.5
ARIZONA	1.1	1.5	1.1	-	1.0	.6	.3	-	1.5
MICHIGAN	1.1	.6	1.0	-	2.8	-	1.8	-	3.5
LOUISIANA	1.0	.4	1.6	-	.8	-	.2	-	1.7
MINNESOTA	.9	.3	1.2	-	1.7	-	2.1	-	1.0
UTAH	.9	.5	1.2	-	1.3	-	.1	-	1.3
NEVADA	.8	.4	1.3	-	.2	-	.7	-	.5
NORTH CAROLINA	.8	1.2	.2	-	2.6	-	1.6	-	.8
GEORGIA	.6	.7	.4	-	1.6	-	.7	-	1.7
RHODE ISLAND	.5	1.6	.1	-	.7	-	.7	-	.8
INDIANA	.5	.5	.3	-	1.7	-	.1	-	.5
WEST VIRGINIA	.4	1.1	.2	-	.3	.8	*	-	1.2
IOWA	.4	.1	.4	-	1.1	.9	.1	-	.5
WISCONSIN	.4	.2	*	-	2.4	-	.2	-	.7
MISSISSIPPI	.4	.9	.2	-	.6	-	.1	-	.8
IDAHO	.4	.1	*	5.0	.1	1.6	*	-	1.0
OREGON	.3	.4	.1	-	1.1	-	.8	-	1.6
KENTUCKY	.3	.2	.4	-	.5	-	.1	-	.7
SOUTH CAROLINA	.3	.1	.1	2.9	.5	-	.6	-	1.1
OKLAHOMA	.2	.5	.1	-	.5	-	.3	-	.7
WYOMING	.2	.6	*	-	.2	-	-	-	.1
NEW HAMPSHIRE	.2	.2	.1	-	.4	-	*	-	.4
ALASKA	.2	.3	*	-	.4	-	.1	-	2.0
HAWAII	.1	.2	.1	-	.5	-	.3	-	.3
MONTANA	.1	.2	.1	-	.2	-	.1	-	2.6
NORTH DAKOTA	.1	.3	*	-	.2	-	-	-	.7
NEBRASKA	.1	.1	*	-	.4	-	.1	-	.4
ARKANSAS	.1	.2	*	-	.3	*	.1	-	1.1
MAINE	.1	.1	*	-	.1	-	.6	-	.7
DELAWARE	.1	*	.1	-	.2	-	*	-	.3
VERMONT	.1	*	*	-	.3	-	*	-	.4
SOUTH DAKOTA	*	*	*	-	.1	-	.2	-	.4
OUTLYING AREAS	.1	.2	*	-	.3	.3	*	-	.4
OFFICES ABROAD	.1	.2	.2	-	*	.3	*	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

*PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-1038. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH STATE, BY PERFORMER: FISCAL YEAR 1981

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL	100.0%	24.8%	48.0%	3.8%	12.9%	5.3%	3.0%	1.5%	0.6%
CALIFORNIA	100.0	12.5	65.9	.4	7.5	8.9	2.0	2.5	.4
MARYLAND	100.0	64.9	24.7	.9	7.8	-	1.4	*	.2
MASSACHUSETTS	100.0	9.6	51.8	*	19.2	5.7	9.2	4.2	.3
FLORIDA	100.0	33.0	61.7	-	4.7	-	.4	-	.3
NEW YORK	100.0	7.2	36.6	10.1	29.0	7.7	7.1	-	2.2
TEXAS	100.0	20.0	59.8	*	17.4	-	2.1	-	.7
NEW MEXICO	100.0	18.2	12.8	35.4	3.2	29.3	.9	-	.2
VIRGINIA	100.0	42.3	46.5	-	5.5	1.2	2.8	1.5	.2
OHIO	100.0	49.4	36.0	.8	10.5	-	2.9	-	.4
PENNSYLVANIA	100.0	27.2	25.8	20.0	20.9	-	5.6	-	.6
WASHINGTON	100.0	7.5	62.1	11.8	10.0	-	2.1	6.1	.5
DISTRICT OF COLUMBIA	100.0	75.2	10.3	-	5.1	.1	8.9	-	.4
TENNESSEE	100.0	8.6	59.3	21.4	7.0	2.7	.8	-	.2
MISSOURI	100.0	3.6	84.4	-	9.9	-	1.5	-	.6
NEW JERSEY	100.0	37.8	44.8	-	7.6	8.5	.5	-	.8
COLORADO	100.0	15.5	45.3	-	12.4	5.1	1.8	18.9	1.0
ILLINOIS	100.0	8.8	8.3	-	31.3	44.0	6.7	-	.9
ALABAMA	100.0	59.0	30.2	-	8.8	-	1.7	-	.4
CONNECTICUT	100.0	3.6	71.3	.9	22.1	-	1.2	-	.9
KANSAS	100.0	1.2	92.8	-	5.5	-	.3	-	.2
ARIZONA	100.0	35.1	48.2	-	12.2	3.0	.7	-	.8
MICHIGAN	100.0	14.1	44.6	-	33.9	-	5.3	-	2.1
LOUISIANA	100.0	11.0	77.1	-	10.1	-	.7	-	1.1
MINNESOTA	100.0	7.5	60.6	-	24.1	-	7.0	-	.7
UTAH	100.0	14.1	66.0	-	18.7	-	.3	-	.9
NEVADA	100.0	12.4	81.8	-	2.5	-	2.9	-	.4
NORTH CAROLINA	100.0	38.9	10.3	-	43.7	-	6.4	-	.6
GEORGIA	100.0	29.9	29.6	-	34.9	-	3.8	-	1.8
RHODE ISLAND	100.0	71.2	8.4	-	15.6	-	3.9	-	.9
INDIANA	100.0	23.0	31.2	-	44.5	-	.6	-	.7
WEST VIRGINIA	100.0	63.2	16.9	-	8.4	9.5	.3	-	1.7
IOWA	100.0	8.5	48.2	-	31.5	10.8	.4	-	.7
WISCONSIN	100.0	14.6	4.2	-	78.3	-	1.8	-	1.1
MISSISSIPPI	100.0	57.9	19.6	-	20.5	-	.6	-	1.4
IDAHO	100.0	7.9	6.5	54.0	4.7	24.8	.3	-	1.9
OREGON	100.0	30.3	12.9	-	45.7	-	7.9	-	3.2
KENTUCKY	100.0	18.2	59.8	-	20.0	-	.6	-	1.4
SOUTH CAROLINA	100.0	12.6	15.6	38.3	24.7	-	6.3	-	2.5
OKLAHOMA	100.0	55.4	14.7	-	24.7	-	3.5	-	1.7
WYOMING	100.0	84.3	.2	-	15.1	-	-	-	.4
NEW HAMPSHIRE	100.0	24.9	39.8	-	33.5	-	.1	-	1.8
ALASKA	100.0	50.0	4.2	-	36.2	-	1.3	-	8.4
HAWAII	100.0	27.5	16.5	-	47.6	-	6.9	-	1.5
MONTANA	100.0	43.5	25.3	-	16.4	-	2.5	-	12.4
NORTH DAKOTA	100.0	58.4	19.3	-	18.5	-	-	-	3.9
NEBRASKA	100.0	29.2	15.9	-	48.3	-	3.9	-	2.8
ARKANSAS	100.0	47.8	6.1	-	36.7	.1	2.0	-	7.4
MAINE	100.0	19.9	25.6	-	21.9	-	26.2	-	6.4
DELAWARE	100.0	3.6	59.9	-	32.5	-	1.9	-	2.1
VERMONT	100.0	5.5	23.2	-	65.0	-	2.0	-	4.2
SOUTH DAKOTA	100.0	25.7	.7	-	43.5	-	20.7	-	9.3
OUTLYING AREAS	100.0	36.8	14.9	-	32.2	13.9	*	-	2.2
OFFICES ABROAD	100.0	31.3	52.4	-	4.5	11.7	.1	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

*PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-104. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND AGENCY: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRI-CULTURE	DEPT OF COM-MERCE 1/	DEPT OF DEFENSE	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERI-OR	DEPT OF TRANS-POR-TATION	ENVIRON-MENTAL PROTEC-TION AGENCY	NATIONAL AERO-NAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDA-TION
TOTAL	33,726,510	768,950	5,218,344	16,428,055	3,898,387	426,384	415,539	324,543	5,286,957	959,351
CALIFORNIA	7,965,966	48,581	830,919	4,489,872	536,557	51,438	34,556	17,080	1,911,438	145,525
MARYLAND	2,783,448	63,638	139,825	1,093,925	915,566	13,417	43,764	7,106	487,960	18,247
MASSACHUSETTS	2,430,569	6,689	99,387	1,780,165	303,285	10,672	62,244	6,912	88,752	72,463
FLORIDA	1,634,032	18,551	30,723	911,101	43,451	5,409	6,533	6,469	599,031	12,764
NEW YORK	1,557,684	22,054	291,726	663,836	408,598	7,523	10,303	14,838	42,212	96,594
TEXAS	1,245,867	35,344	61,901	433,124	138,823	8,491	30,103	9,358	506,439	22,284
NEW MEXICO	1,224,140	3,388	798,506	371,416	12,486	8,558	634	104	23,690	5,358
VIRGINIA	1,160,516	6,260	38,805	705,905	52,806	33,944	30,187	7,764	271,611	13,234
OHIO	1,117,179	10,915	143,387	599,719	97,525	5,257	14,799	43,965	184,693	16,919
PENNSYLVANIA	1,082,871	24,348	311,214	379,620	184,935	29,850	10,209	10,723	95,589	36,383
WASHINGTON	1,047,536	13,904	282,208	606,410	83,264	13,232	6,968	3,716	18,881	18,953
DISTRICT OF COLUMBIA	932,283	85,934	167,135	312,988	88,499	12,661	55,035	16,435	77,632	115,964
TENNESSEE	883,595	6,356	538,014	268,859	46,935	2,533	1,515	3,573	10,117	5,692
MISSOURI	820,378	11,168	3,677	705,060	71,364	9,100	3,827	2,386	7,186	6,610
NEW JERSEY	775,418	2,939	103,867	536,742	29,371	4,006	16,668	16,574	34,930	30,321
COLORADO	632,817	16,047	193,545	183,937	43,309	45,850	13,968	8,915	81,164	46,082
ILLINOIS	572,603	29,206	298,634	52,183	109,034	7,062	5,774	11,552	12,384	46,774
ALABAMA	572,597	9,059	13,755	261,837	42,835	5,993	2,589	1,370	233,633	1,526
CONNECTICUT	485,047	3,641	23,836	241,050	80,173	1,592	11,025	1,754	109,071	12,905
KANSAS	470,990	6,415	3,352	435,567	14,455	1,467	816	283	4,831	3,804
ARIZONA	367,680	12,572	13,475	198,725	21,277	6,471	2,561	596	91,496	20,507
MICHIGAN	357,177	10,949	12,582	180,282	82,331	8,093	9,544	13,221	15,553	24,622
LOUISIANA	331,751	33,004	43,323	21,426	20,858	2,035	3,270	830	203,935	3,070
MINNESOTA	308,983	13,463	17,090	168,416	72,261	9,751	1,684	7,022	9,365	9,931
UTAH	305,657	8,411	14,736	150,919	27,841	10,711	628	319	85,056	7,036
NEVADA	262,979	1,750	217,795	24,526	627	8,287	164	7,428	1,183	1,219
NORTH CAROLINA	259,799	17,398	11,751	34,398	117,431	3,506	991	56,734	6,517	11,073
GEORGIA	195,037	29,763	23,961	49,499	54,440	4,004	2,228	8,818	11,997	10,327
RHODE ISLAND	182,478	1,246	4,462	143,787	13,080	736	429	5,011	1,246	12,481
INDIANA	170,137	8,047	8,367	84,515	28,137	2,268	8,345	1,293	7,351	21,814
WEST VIRGINIA	151,174	8,162	82,557	24,471	13,135	6,104	625	1,158	194	14,768
IOWA	147,389	17,895	15,636	71,828	29,798	1,768	706	1,336	3,967	4,455
WISCONSIN	132,215	24,062	8,671	6,624	60,948	3,290	224	3,013	5,654	19,729
MISSISSIPPI	125,499	22,982	8,224	61,521	7,858	1,406	1,361	832	16,324	4,991
IDAHO	119,524	10,269	102,353	-	677	5,291	117	183	340	294
OREGON	105,620	18,758	13,541	5,870	28,430	15,390	1,419	6,902	3,955	11,355
KENTUCKY	101,049	7,340	59,551	12,034	15,367	1,908	499	1,540	700	2,110
SOUTH CAROLINA	96,109	10,004	58,865	3,088	13,380	2,153	603	2,959	433	4,624
OKLAHOMA	82,423	8,786	30,125	5,284	8,795	1,719	11,484	8,845	4,894	2,491
WYOMING	58,234	3,272	44,234	424	573	6,109	228	764	288	2,341
NEW HAMPSHIRE	54,765	3,041	4,132	28,933	9,238	1,779	355	313	3,044	3,930
ALASKA	51,829	5,658	6,883	12,457	1,650	13,987	1,142	1,435	2,175	6,442
HAWAII	49,897	4,021	6,318	16,354	10,326	3,394	338	267	3,531	5,348
MONTANA	45,405	10,560	12,167	617	7,749	10,339	254	875	898	1,966
NORTH DAKOTA	40,057	14,177	11,327	7,148	1,573	5,339	189	43	13	248
NEBRASKA	31,663	12,301	1,511	4,877	6,860	1,442	331	-	399	3,942
ARKANSAS	31,186	6,311	2,138	1,519	12,999	2,140	1,131	804	2,054	2,090
MAINE	24,371	3,341	1,697	4,588	8,054	1,853	1,969	419	283	2,167
DELAWARE	25,929	2,351	2,263	13,855	1,621	353	845	500	1,034	3,107
VERMONT	18,734	2,144	137	3,677	10,797	751	149	101	421	557
SOUTH DAKOTA	10,184	4,145	301	138	2,720	2,039	117	105	146	464
OUTLYING AREAS	38,885	6,533	3,403	14,372	4,706	3,913	90	-	356	5,922
OFFICES ABROAD	47,155	1,796	352	38,567	-	-	1	-	911	5,528

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

NOTE: THE OBLIGATIONS OF THE NINE MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 96 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-104A. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH AGENCY, BY STATE: FISCAL YEAR 1981

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE 1/	DEPT OF DEFENSE	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA	23.6	6.3	15.9	27.3	11.2	12.1	8.3	5.3	36.2	15.2
MARYLAND	8.2	8.3	2.7	6.7	23.5	3.1	10.5	2.2	9.2	1.9
MASSACHUSETTS	7.2	.9	1.9	10.8	7.8	2.5	15.0	2.1	1.7	7.6
FLORIDA	4.8	2.4	.6	5.5	1.1	1.3	1.6	2.0	11.3	1.3
NEW YORK	4.6	2.9	5.6	4.0	10.5	1.8	2.5	4.6	.8	10.1
TEXAS	3.7	4.6	1.2	2.6	3.6	2.0	7.2	2.9	9.6	2.3
NEW MEXICO	3.6	.4	15.3	2.3	.3	2.0	.2	*	.4	.6
VIRGINIA	3.4	.8	.7	4.3	1.4	8.0	7.3	2.4	5.1	1.4
OHIO	3.3	1.4	2.7	3.7	2.5	1.2	3.6	13.5	3.5	1.8
PENNSYLVANIA	3.2	3.2	6.0	2.3	4.7	7.0	2.5	3.3	1.8	3.8
WASHINGTON	3.1	1.8	5.4	3.7	2.1	3.1	1.7	1.1	.4	2.0
DISTRICT OF COLUMBIA	2.8	11.2	3.2	1.9	2.3	3.0	13.2	5.1	1.5	12.1
TENNESSEE	2.6	.8	10.3	1.6	1.2	.6	.4	1.1	.2	.6
MISSOURI	2.4	1.5	.1	4.3	1.8	2.1	.9	.7	.1	.7
NEW JERSEY	2.3	.4	2.0	3.3	.8	.9	4.0	5.1	.7	3.2
COLORADO	1.9	2.1	3.7	1.1	1.1	10.8	3.4	2.7	1.5	4.8
ILLINOIS	1.7	3.8	5.7	.3	2.8	1.7	1.4	3.6	.2	4.9
ALABAMA	1.7	1.2	.3	1.6	1.1	1.4	.6	.4	4.4	.2
CONNECTICUT	1.4	.5	.5	1.5	2.1	.4	2.7	.5	2.1	1.3
KANSAS	1.4	.8	.1	2.7	.4	.3	.2	.1	.1	.4
ARIZONA	1.1	1.6	.3	1.2	.5	1.5	.6	.2	1.7	2.1
MICHIGAN	1.1	1.4	.2	1.1	2.1	1.9	2.3	4.1	.3	2.6
LOUISIANA	1.0	4.3	.8	.1	.5	.5	.8	.3	3.9	.3
MINNESOTA	.9	1.8	.3	1.0	1.9	2.3	.4	2.2	.2	1.0
UTAH	.9	1.1	.3	.9	.7	2.5	.2	.1	1.6	.7
NEVADA	.8	.2	4.2	.1	*	1.9	*	2.3	*	.1
NORTH CAROLINA	.8	2.3	.2	.2	3.0	.8	.2	17.5	.1	1.2
GEORGIA	.6	3.9	.5	.3	1.4	.9	.5	2.7	.2	1.1
RHODE ISLAND	.5	.2	.1	.9	.3	.2	.1	1.5	*	1.3
INDIANA	.5	1.0	.2	.5	.7	.5	2.0	.4	.1	2.3
WEST VIRGINIA	.4	1.1	1.6	.1	.3	1.4	.2	.4	*	1.5
IOWA	.4	2.3	.3	.4	.8	.4	.2	.4	.1	.5
WISCONSIN	.4	3.1	.2	*	1.6	.8	.1	.9	.1	2.1
MISSISSIPPI	.4	3.0	.2	.4	.2	.3	.3	.3	.3	.5
IDAHO	.4	1.3	2.0	-	*	1.2	*	.1	*	*
OREGON	.3	2.4	.3	*	.7	3.6	.3	2.1	.1	1.2
KENTUCKY	.3	1.0	1.1	.1	.4	.4	.1	.5	*	.2
SOUTH CAROLINA	.3	1.3	1.1	*	.3	.5	.1	.9	*	.5
OKLAHOMA	.2	1.1	.6	*	.2	.4	2.8	2.7	.1	.3
WYOMING	.2	.4	.8	*	*	1.4	.1	.2	*	.2
NEW HAMPSHIRE	.2	.4	.1	.2	.2	.4	.1	.1	.1	.4
ALASKA	.2	.7	.1	.1	*	3.3	.3	.4	*	.7
HAWAII	.1	.5	.1	.1	.3	.8	.1	.1	.1	.6
MONTANA	.1	1.4	.2	*	.2	2.4	.1	.3	*	.2
NORTH DAKOTA	.1	1.8	.2	*	*	1.3	*	*	*	*
NEBRASKA	.1	1.6	*	*	.2	.3	.1	-	*	.4
ARKANSAS	.1	.8	*	*	.3	.5	.3	.2	*	.2
MAINE	.1	.4	*	*	.2	.4	.5	.1	*	.2
DELAWARE	.1	.3	*	.1	*	.1	.2	.2	*	.3
VERMONT	.1	.3	*	*	.3	.2	*	*	*	.1
SOUTH DAKOTA	*	.5	*	*	.1	.5	*	*	*	*
OUTLYING AREAS	.1	.8	.1	.1	.1	.9	*	-	*	.6
OFFICES ABROAD	.1	.2	*	.2	-	-	*	-	*	.6

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

*PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-1048. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH STATE, BY AGENCY: FISCAL YEAR 1981

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE 1/	DEPT OF DEFENSE	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL	100.0%	2.3%	15.5%	48.7%	11.6%	1.3%	1.2%	1.0%	15.7%	2.8%
CALIFORNIA	100.0	.6	10.4	56.4	5.5	.6	.4	.2	24.0	1.8
MARYLAND	100.0	2.3	5.0	39.3	32.9	.5	1.6	.3	17.5	.7
MASSACHUSETTS	100.0	.3	4.1	73.2	12.5	.4	2.6	.3	3.7	3.0
FLORIDA	100.0	1.1	1.9	55.8	2.7	.3	.4	.4	36.7	.8
NEW YORK	100.0	1.4	18.7	42.6	26.2	.5	.7	1.0	2.7	6.2
TEXAS	100.0	2.8	5.0	34.8	11.1	.7	2.4	.8	40.6	1.8
NEW MEXICO	100.0	.3	65.2	30.3	1.0	.7	.1	*	1.9	.4
VIRGINIA	100.0	.5	3.3	60.8	4.6	2.9	2.6	.7	23.4	1.1
OHIO	100.0	1.0	12.8	53.7	8.7	.5	1.3	3.9	16.5	1.5
PENNSYLVANIA	100.0	2.2	28.7	35.1	17.1	2.8	.9	1.0	8.8	3.4
WASHINGTON	100.0	1.3	26.9	57.9	7.9	1.3	.7	.4	1.8	1.8
DISTRICT OF COLUMBIA	100.0	9.2	17.9	33.6	9.5	1.4	5.9	1.8	8.3	12.3
TENNESSEE	100.0	.7	60.9	30.4	5.3	.3	.2	.4	1.1	.6
MISSOURI	100.0	1.4	.4	85.9	8.7	1.1	.5	.3	.9	.8
NEW JERSEY	100.0	.4	13.4	69.2	3.8	.5	2.1	2.1	4.5	3.9
COLORADO	100.0	2.5	30.6	29.1	6.8	7.2	2.2	1.4	12.8	7.3
ILLINOIS	100.0	5.1	52.2	9.1	19.0	1.2	1.0	2.0	2.2	8.2
ALABAMA	100.0	1.6	2.4	45.7	7.5	1.0	.5	.2	40.8	.3
CONNECTICUT	100.0	.8	4.9	49.7	16.5	.3	2.3	.4	22.5	2.7
KANSAS	100.0	1.4	.7	92.5	3.1	.3	.2	.1	1.0	.8
ARIZONA	100.0	3.4	3.7	54.0	5.8	1.8	.7	.2	24.9	5.6
MICHIGAN	100.0	3.1	3.5	50.5	23.1	2.3	2.7	3.7	4.4	6.9
LOUISIANA	100.0	9.9	13.1	6.5	6.3	.6	1.0	.3	61.5	.9
MINNESOTA	100.0	4.4	5.5	54.5	23.4	3.2	.5	2.3	3.0	3.2
UTAH	100.0	2.8	4.8	49.4	9.1	3.5	.2	.1	27.8	2.3
NEVADA	100.0	.7	82.8	9.3	.2	3.2	.1	2.8	.4	.5
NORTH CAROLINA	100.0	6.7	4.5	13.2	45.2	1.3	.4	21.8	2.5	4.3
GEORGIA	100.0	15.3	12.3	25.4	27.9	2.1	1.1	4.5	6.2	5.3
RHODE ISLAND	100.0	.7	2.4	78.8	7.2	.4	.2	2.7	.7	6.8
INDIANA	100.0	4.7	4.9	49.7	16.5	1.3	4.9	.8	4.3	12.8
WEST VIRGINIA	100.0	5.4	54.6	16.2	8.7	4.0	.4	.8	.1	9.8
IOWA	100.0	12.1	10.6	48.7	20.2	1.2	.5	.9	2.7	3.0
WISCONSIN	100.0	18.2	6.6	5.0	46.1	2.5	.2	2.3	4.3	14.9
MISSISSIPPI	100.0	18.3	6.6	49.0	6.3	1.1	1.1	.7	13.0	4.0
IDAHO	100.0	8.6	85.6	-	.6	4.4	.1	.2	.3	.2
OREGON	100.0	17.8	12.8	5.6	26.9	14.6	1.3	6.5	3.7	10.8
KENTUCKY	100.0	7.3	58.9	11.9	15.2	1.9	.5	1.5	.7	2.1
SOUTH CAROLINA	100.0	10.4	61.2	3.2	13.9	2.2	.6	3.1	.5	4.8
OKLAHOMA	100.0	10.7	36.5	6.4	10.7	2.1	13.9	10.7	5.9	3.0
WYOMING	100.0	5.6	76.0	.7	1.0	10.5	.4	1.3	.5	4.0
NEW HAMPSHIRE	100.0	5.6	7.5	52.8	16.9	3.2	.6	.6	5.6	7.2
ALASKA	100.0	10.9	13.3	24.0	3.2	27.0	2.2	2.8	4.2	12.4
HAWAII	100.0	8.1	12.7	32.8	20.7	6.8	.7	.5	7.1	10.7
MONTANA	100.0	25.3	26.8	1.4	17.0	22.8	.6	1.9	2.0	4.3
NORTH DAKOTA	100.0	35.4	28.3	17.8	3.9	13.3	.5	.1	*	.6
NEBRASKA	100.0	38.8	4.8	15.4	21.7	4.6	1.0	-	1.3	12.4
ARKANSAS	100.0	20.2	6.9	4.9	41.7	6.9	3.6	2.6	6.6	6.7
MAINE	100.0	13.7	7.0	18.8	33.0	7.6	8.1	1.7	1.2	8.9
DELAWARE	100.0	9.1	8.7	53.4	6.3	1.4	3.3	1.9	4.0	12.0
VERMONT	100.0	11.4	.7	19.6	57.6	4.0	.8	.5	2.2	3.0
SOUTH DAKOTA	100.0	40.7	3.0	1.4	26.8	20.0	1.1	1.0	1.4	4.6
OUTLYING AREAS	100.0	16.8	8.8	37.0	11.0	10.1	.2	-	.9	15.2
OFFICES ABROAD	100.0	3.8	.7	81.8	-	-	*	-	1.9	11.7

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

*PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL									
TOTAL	33,726,510	8,353,343	16,194,265	1,289,924	4,352,653	1,794,781	1,021924	505,807	213,813
DEPARTMENT OF AGRICULTURE	768,950	511,360	8,845	-	242,717	-	2,309	-	3,719
DEPARTMENT OF COMMERCE 2/	5,218,344	687,568	1,344,703	1,154,797	346,439	1,400,604	76,046	184,114	24,073
DEPARTMENT OF DEFENSE	16,428,055	4,280,707	10,825,900	105,480	572,877	185,835	138,137	318,907	212
DEPARTMENT OF HEALTH & HUMAN SRVCS	3,898,387	872,268	161,312	27,925	2,184,925	14,996	560,738	1,720	74,503
DEPARTMENT OF THE INTERIOR	426,384	273,794	62,010	58	39,355	1,631	3,635	308	45,593
DEPARTMENT OF TRANSPORTATION	415,539	122,355	193,202	-	28,491	4,000	22,375	-	45,116
ENVIRONMENTAL PROTECTION AGENCY	324,543	152,008	79,664	-	52,210	-	21,801	-	18,860
NATIONAL AERONAUTICS AND SPACE ADMIN	5,286,957	1,346,811	3,489,071	-	183,500	116,546	150,260	650	119
NATIONAL SCIENCE FOUNDATION	959,351	106,472	29,558	1,664	702,139	71,169	46,623	108	1,618
NEW ENGLAND									
TOTAL	3,195,964	400,448	1,651,959	5,200	637,617	138,371	243,756	102,014	16,599
DEPARTMENT OF AGRICULTURE	20,102	7,241	30	-	11,334	-	393	-	1,104
DEPARTMENT OF COMMERCE 2/	133,651	8,932	46,731	4,200	57,446	10,408	3,004	-	2,930
DEPARTMENT OF DEFENSE	2,202,200	311,125	1,423,116	1,000	195,079	123,750	46,106	102,014	10
DEPARTMENT OF HEALTH & HUMAN SRVCS	424,627	3,160	28,299	-	249,809	-	136,764	-	6,595
DEPARTMENT OF THE INTERIOR	17,383	4,934	7,505	-	2,476	-	-	-	2,468
DEPARTMENT OF TRANSPORTATION	76,171	54,760	13,520	-	1,454	3,800	-	-	2,637
ENVIRONMENTAL PROTECTION AGENCY	14,510	3,963	4,605	-	3,385	-	1,765	-	792
NATIONAL AERONAUTICS AND SPACE ADMIN	202,817	6,066	125,722	-	21,811	413	48,805	-	-
NATIONAL SCIENCE FOUNDATION	104,503	267	2,431	-	94,823	-	6,919	-	63
CONNECTICUT									
TOTAL	485,047	17,357	346,008	4,200	107,347	-	5,745	-	4,390
DEPARTMENT OF AGRICULTURE	3,641	1,699	-	-	1,269	-	-	-	673
DEPARTMENT OF COMMERCE 2/	23,836	1,715	8,833	4,200	6,478	-	1,557	-	1,043
DEPARTMENT OF DEFENSE	241,050	8,696	220,762	-	11,588	-	4	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	80,173	-	903	-	74,429	-	3,309	-	1,532
DEPARTMENT OF THE INTERIOR	1,592	845	64	-	315	-	-	-	368
DEPARTMENT OF TRANSPORTATION	11,025	4,187	6,209	-	-	-	-	-	629
ENVIRONMENTAL PROTECTION AGENCY	1,754	-	1,228	-	53	-	328	-	145
NATIONAL AERONAUTICS AND SPACE ADMIN	109,071	215	107,660	-	1,114	-	82	-	-
NATIONAL SCIENCE FOUNDATION	12,905	-	349	-	12,101	-	455	-	-
MAINE									
TOTAL	24,371	4,841	6,251	-	5,326	-	6,394	-	1,559
DEPARTMENT OF AGRICULTURE	3,341	1,386	11	-	1,939	-	-	-	5
DEPARTMENT OF COMMERCE 2/	1,697	-	400	-	878	-	231	-	188
DEPARTMENT OF DEFENSE	4,588	1,105	3,033	-	124	-	326	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	8,054	1,421	981	-	494	-	4,978	-	180
DEPARTMENT OF THE INTERIOR	1,853	823	-	-	270	-	-	-	760
DEPARTMENT OF TRANSPORTATION	1,969	99	1,732	-	-	-	-	-	138
ENVIRONMENTAL PROTECTION AGENCY	419	-	5	-	126	-	-	-	288
NATIONAL AERONAUTICS AND SPACE ADMIN	283	7	-	-	10	-	266	-	-
NATIONAL SCIENCE FOUNDATION	2,167	-	89	-	1,485	-	593	-	-
MASSACHUSETTS									
TOTAL	2,430,569	233,674	1,258,297	1,000	465,891	138,371	224,037	102,014	7,285
DEPARTMENT OF AGRICULTURE	6,689	1,810	19	-	4,047	-	387	-	426
DEPARTMENT OF COMMERCE 2/	99,387	6,929	33,996	-	46,296	10,408	1,091	-	667
DEPARTMENT OF DEFENSE	1,780,165	164,283	1,163,393	1,000	179,973	123,750	45,752	102,014	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	303,285	1,739	25,874	-	149,268	-	122,007	-	4,397
DEPARTMENT OF THE INTERIOR	10,672	1,887	6,986	-	1,341	-	-	-	458
DEPARTMENT OF TRANSPORTATION	62,244	50,407	5,508	-	1,323	3,800	-	-	1,206
ENVIRONMENTAL PROTECTION AGENCY	6,912	758	3,357	-	1,686	-	1,043	-	68
NATIONAL AERONAUTICS AND SPACE ADMIN	88,752	5,713	17,265	-	17,040	413	48,321	-	-
NATIONAL SCIENCE FOUNDATION	72,463	148	1,899	-	64,917	-	5,436	-	63
NEW HAMPSHIRE									
TOTAL	54,765	13,626	21,789	-	18,339	-	49	-	962
DEPARTMENT OF AGRICULTURE	3,041	1,639	-	-	1,402	-	-	-	-
DEPARTMENT OF COMMERCE 2/	4,132	77	3,298	-	670	-	-	-	87
DEPARTMENT OF DEFENSE	28,933	10,764	17,624	-	535	-	-	-	10
DEPARTMENT OF HEALTH & HUMAN SRVCS	9,238	-	-	-	9,106	-	-	-	132
DEPARTMENT OF THE INTERIOR	1,779	913	435	-	115	-	-	-	316
DEPARTMENT OF TRANSPORTATION	355	-	32	-	96	-	-	-	227
ENVIRONMENTAL PROTECTION AGENCY	313	-	-	-	123	-	-	-	190
NATIONAL AERONAUTICS AND SPACE ADMIN	3,044	114	336	-	2,594	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,930	119	64	-	3,698	-	49	-	-

CONTINUED ON NEXT PAGE

TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
RHODE ISLAND									
TOTAL	182,478	129,913	15,267	-	28,531	-	7,159	-	1,608
DEPARTMENT OF AGRICULTURE	1,246	-	-	-	1,246	-	-	-	-
DEPARTMENT OF COMMERCE 2/	4,462	158	204	-	3,059	-	115	-	926
DEPARTMENT OF DEFENSE	143,787	126,277	14,726	-	2,760	-	24	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	13,080	-	50	-	6,764	-	6,104	-	162
DEPARTMENT OF THE INTERIOR	736	256	-	-	320	-	-	-	160
DEPARTMENT OF TRANSPORTATION	429	-	34	-	35	-	-	-	360
ENVIRONMENTAL PROTECTION AGENCY	5,011	3,205	15	-	1,397	-	394	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	1,246	17	208	-	885	-	136	-	-
NATIONAL SCIENCE FOUNDATION	12,481	-	30	-	12,065	-	386	-	-
VERMONT									
TOTAL	18,734	1,037	4,347	-	12,183	-	372	-	795
DEPARTMENT OF AGRICULTURE	2,144	707	-	-	1,431	-	6	-	-
DEPARTMENT OF COMMERCE 2/	137	53	-	-	65	-	-	-	19
DEPARTMENT OF DEFENSE	3,677	-	3,578	-	99	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	10,797	-	491	-	9,748	-	366	-	192
DEPARTMENT OF THE INTERIOR	751	210	20	-	115	-	-	-	406
DEPARTMENT OF TRANSPORTATION	149	67	5	-	-	-	-	-	77
ENVIRONMENTAL PROTECTION AGENCY	101	-	-	-	-	-	-	-	101
NATIONAL AERONAUTICS AND SPACE ADMIN	421	-	253	-	168	-	-	-	-
NATIONAL SCIENCE FOUNDATION	557	-	-	-	557	-	-	-	-
MIDDLE ATLANTIC									
TOTAL	3,415,973	699,281	1,196,668	373,206	737,670	186,418	175,896	-	46,834
DEPARTMENT OF AGRICULTURE	49,341	28,558	900	-	19,399	-	343	-	141
DEPARTMENT OF COMMERCE 2/	706,807	101,960	89,333	278,349	51,219	180,693	3,552	-	1,701
DEPARTMENT OF DEFENSE	1,580,198	518,554	895,565	94,857	60,981	2,067	8,174	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	622,904	1,637	6,677	-	440,509	3,218	139,860	-	31,003
DEPARTMENT OF THE INTERIOR	41,379	20,032	14,123	-	4,445	50	933	-	1,796
DEPARTMENT OF TRANSPORTATION	37,180	12,489	13,131	-	2,768	-	324	-	8,468
ENVIRONMENTAL PROTECTION AGENCY	42,135	8,397	23,850	-	4,490	-	2,013	-	3,385
NATIONAL AERONAUTICS AND SPACE ADMIN	172,731	7,654	139,650	-	18,003	-	7,363	-	61
NATIONAL SCIENCE FOUNDATION	163,298	-	13,439	-	135,856	390	13,334	-	279
NEW JERSEY									
TOTAL	775,418	292,879	347,160	-	59,207	66,196	4,087	-	5,889
DEPARTMENT OF AGRICULTURE	2,939	79	16	-	2,801	-	18	-	25
DEPARTMENT OF COMMERCE 2/	103,867	12,024	16,635	-	8,285	66,196	184	-	543
DEPARTMENT OF DEFENSE	536,742	261,994	270,738	-	3,927	-	83	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	29,371	53	2,054	-	22,971	-	2,523	-	1,770
DEPARTMENT OF THE INTERIOR	4,006	1,903	1,320	-	285	-	-	-	498
DEPARTMENT OF TRANSPORTATION	16,668	10,661	3,633	-	538	-	77	-	1,759
ENVIRONMENTAL PROTECTION AGENCY	16,574	5,726	9,127	-	320	-	107	-	1,294
NATIONAL AERONAUTICS AND SPACE ADMIN	34,930	439	31,191	-	3,300	-	-	-	-
NATIONAL SCIENCE FOUNDATION	30,321	-	12,446	-	16,780	-	1,095	-	-
NEW YORK									
TOTAL	1,557,684	112,225	570,638	156,880	452,057	120,222	111,106	-	34,556
DEPARTMENT OF AGRICULTURE	22,054	13,056	541	-	8,135	-	256	-	66
DEPARTMENT OF COMMERCE 2/	291,726	1,198	32,765	107,169	33,797	114,497	1,213	-	1,087
DEPARTMENT OF DEFENSE	663,836	83,718	500,583	49,711	20,246	2,067	7,511	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	408,598	1,327	3,529	-	289,019	3,218	83,902	-	27,603
DEPARTMENT OF THE INTERIOR	7,523	3,375	1,089	-	2,209	50	-	-	800
DEPARTMENT OF TRANSPORTATION	10,303	929	5,657	-	778	-	40	-	2,899
ENVIRONMENTAL PROTECTION AGENCY	14,838	2,037	7,247	-	2,533	-	1,260	-	1,761
NATIONAL AERONAUTICS AND SPACE ADMIN	42,212	6,585	18,925	-	9,748	-	6,893	-	61
NATIONAL SCIENCE FOUNDATION	96,594	-	302	-	85,592	390	10,031	-	279
PENNSYLVANIA									
TOTAL	1,082,871	294,177	278,870	216,326	226,406	-	60,703	-	6,389
DEPARTMENT OF AGRICULTURE	24,348	15,423	343	-	8,463	-	69	-	50
DEPARTMENT OF COMMERCE 2/	311,214	88,738	39,933	171,180	9,137	-	2,155	-	71
DEPARTMENT OF DEFENSE	379,620	172,842	124,244	45,146	36,808	-	580	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	184,935	257	1,094	-	128,519	-	53,435	-	1,630
DEPARTMENT OF THE INTERIOR	29,850	14,754	11,714	-	1,951	-	933	-	498
DEPARTMENT OF TRANSPORTATION	10,209	899	3,841	-	1,452	-	207	-	3,810
ENVIRONMENTAL PROTECTION AGENCY	10,723	634	7,476	-	1,637	-	646	-	330
NATIONAL AERONAUTICS AND SPACE ADMIN	95,589	630	89,534	-	4,955	-	470	-	-
NATIONAL SCIENCE FOUNDATION	36,383	-	691	-	33,484	-	2,208	-	-

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TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

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GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
EAST NORTH CENTRAL									
TOTAL	2,349,311	711,119	667,497	9,271	597,093	251,671	93,213	-	19,447
DEPARTMENT OF AGRICULTURE	83,179	48,897	744	-	32,841	-	428	-	269
DEPARTMENT OF COMMERCE 2/	471,641	60,638	94,865	9,271	37,630	250,480	14,778	-	3,979
DEPARTMENT OF DEFENSE	923,323	389,886	475,098	-	47,227	39	11,059	-	14
DEPARTMENT OF HEALTH & HUMAN SRVCS	377,975	18,198	13,199	-	299,408	542	44,054	-	2,574
DEPARTMENT OF THE INTERIOR	25,970	13,950	3,486	-	3,084	410	160	-	4,880
DEPARTMENT OF TRANSPORTATION	38,686	10,900	11,184	-	11,876	200	458	-	4,068
ENVIRONMENTAL PROTECTION AGENCY	73,044	37,188	15,825	-	10,237	-	6,271	-	3,523
NATIONAL AERONAUTICS AND SPACE ADMIN	225,635	131,455	52,590	-	27,857	-	13,733	-	-
NATIONAL SCIENCE FOUNDATION	129,858	7	506	-	126,933	-	2,272	-	140
ILLINOIS									
TOTAL	572,603	50,627	47,631	-	179,144	251,671	38,207	-	5,323
DEPARTMENT OF AGRICULTURE	29,206	21,565	511	-	7,085	-	25	-	20
DEPARTMENT OF COMMERCE 2/	298,634	7,136	13,971	-	12,064	250,480	13,702	-	1,281
DEPARTMENT OF DEFENSE	52,183	15,872	22,681	-	10,782	39	2,809	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	109,034	114	950	-	91,830	542	15,078	-	520
DEPARTMENT OF THE INTERIOR	7,062	2,958	1,754	-	988	410	2	-	950
DEPARTMENT OF TRANSPORTATION	5,774	326	2,494	-	1,055	200	242	-	1,457
ENVIRONMENTAL PROTECTION AGENCY	11,552	1,887	2,756	-	2,945	-	2,869	-	1,095
NATIONAL AERONAUTICS AND SPACE ADMIN	12,384	762	2,514	-	7,275	-	1,833	-	-
NATIONAL SCIENCE FOUNDATION	46,774	7	-	-	45,120	-	1,647	-	-
INDIANA									
TOTAL	170,137	39,172	53,023	-	75,775	-	1,054	-	1,113
DEPARTMENT OF AGRICULTURE	8,047	2,165	50	-	5,805	-	-	-	27
DEPARTMENT OF COMMERCE 2/	8,367	-	922	-	6,762	-	304	-	379
DEPARTMENT OF DEFENSE	84,515	33,422	48,471	-	2,609	-	13	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	28,137	-	904	-	26,900	-	333	-	-
DEPARTMENT OF THE INTERIOR	2,268	1,550	198	-	330	-	-	-	190
DEPARTMENT OF TRANSPORTATION	8,345	618	693	-	6,567	-	-	-	467
ENVIRONMENTAL PROTECTION AGENCY	1,293	-	399	-	794	-	50	-	50
NATIONAL AERONAUTICS AND SPACE ADMIN	7,351	1,417	1,386	-	4,194	-	354	-	-
NATIONAL SCIENCE FOUNDATION	21,814	-	-	-	21,814	-	-	-	-
MICHIGAN									
TOTAL	357,177	50,528	159,285	-	121,090	-	18,814	-	7,460
DEPARTMENT OF AGRICULTURE	10,949	4,430	64	-	6,406	-	27	-	22
DEPARTMENT OF COMMERCE 2/	12,582	2,718	1,576	-	6,921	-	429	-	938
DEPARTMENT OF DEFENSE	180,282	35,132	135,912	-	6,289	-	2,935	-	14
DEPARTMENT OF HEALTH & HUMAN SRVCS	82,331	-	6,800	-	66,101	-	7,867	-	1,563
DEPARTMENT OF THE INTERIOR	8,093	4,811	145	-	1,123	-	-	-	2,014
DEPARTMENT OF TRANSPORTATION	9,544	83	5,406	-	3,134	-	-	-	921
ENVIRONMENTAL PROTECTION AGENCY	13,221	3,244	5,340	-	1,630	-	1,090	-	1,917
NATIONAL AERONAUTICS AND SPACE ADMIN	15,553	110	3,953	-	5,120	-	6,370	-	-
NATIONAL SCIENCE FOUNDATION	24,622	-	89	-	24,366	-	96	-	71
OHIO									
TOTAL	1,117,179	551,542	401,971	9,271	117,590	-	32,713	-	4,092
DEPARTMENT OF AGRICULTURE	10,915	4,329	72	-	6,061	-	298	-	155
DEPARTMENT OF COMMERCE 2/	143,387	50,300	78,396	9,271	3,722	-	343	-	1,355
DEPARTMENT OF DEFENSE	599,719	305,252	265,777	-	23,388	-	5,302	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	97,525	18,084	2,396	-	57,903	-	19,041	-	101
DEPARTMENT OF THE INTERIOR	5,257	2,513	1,232	-	294	-	158	-	1,060
DEPARTMENT OF TRANSPORTATION	14,799	9,873	2,508	-	1,120	-	216	-	1,082
ENVIRONMENTAL PROTECTION AGENCY	43,965	32,057	6,830	-	3,078	-	1,661	-	339
NATIONAL AERONAUTICS AND SPACE ADMIN	184,693	129,134	44,423	-	5,960	-	5,176	-	-
NATIONAL SCIENCE FOUNDATION	16,919	-	337	-	16,064	-	518	-	-
WISCONSIN									
TOTAL	132,215	19,250	5,587	-	103,494	-	2,425	-	1,459
DEPARTMENT OF AGRICULTURE	24,062	16,408	47	-	7,484	-	78	-	45
DEPARTMENT OF COMMERCE 2/	8,671	484	-	-	8,161	-	-	-	26
DEPARTMENT OF DEFENSE	6,624	208	2,257	-	4,159	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	60,948	-	2,149	-	56,674	-	1,735	-	390
DEPARTMENT OF THE INTERIOR	3,290	2,118	157	-	349	-	-	-	666
DEPARTMENT OF TRANSPORTATION	224	-	83	-	-	-	-	-	141
ENVIRONMENTAL PROTECTION AGENCY	3,013	-	500	-	1,790	-	601	-	122
NATIONAL AERONAUTICS AND SPACE ADMIN	5,654	32	314	-	5,308	-	-	-	-
NATIONAL SCIENCE FOUNDATION	19,729	-	80	-	19,569	-	11	-	69

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TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WEST NORTH CENTRAL									
TOTAL	1,829,644	105,946	1,400,501	-	255,366	15,956	39,225	-	12,650
DEPARTMENT OF AGRICULTURE	79,564	47,080	1,105	-	31,042	-	114	-	223
DEPARTMENT OF COMMERCE 2/	52,894	10,649	15,418	-	9,625	15,120	785	-	1,297
DEPARTMENT OF DEFENSE	1,393,034	18,290	1,366,465	-	7,460	644	175	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	199,040	147	922	-	160,754	-	35,545	-	1,672
DEPARTMENT OF THE INTERIOR	30,906	19,835	2,216	-	4,342	-	83	-	4,430
DEPARTMENT OF TRANSPORTATION	7,670	-	2,273	-	476	-	1,242	-	3,679
ENVIRONMENTAL PROTECTION AGENCY	11,175	3,524	3,324	-	2,652	-	326	-	1,349
NATIONAL AERONAUTICS AND SPACE ADMIN	25,907	6,421	8,554	-	10,740	192	-	-	-
NATIONAL SCIENCE FOUNDATION	29,454	-	224	-	28,275	-	955	-	-
IOWA									
TOTAL	147,389	12,466	70,982	-	46,367	15,956	611	-	1,007
DEPARTMENT OF AGRICULTURE	17,895	11,643	263	-	5,962	-	-	-	27
DEPARTMENT OF COMMERCE 2/	15,636	-	-	-	497	15,120	-	-	19
DEPARTMENT OF DEFENSE	71,828	41	69,556	-	1,587	644	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	29,798	-	-	-	29,190	-	541	-	67
DEPARTMENT OF THE INTERIOR	1,768	780	122	-	273	-	-	-	593
DEPARTMENT OF TRANSPORTATION	706	-	289	-	186	-	-	-	231
ENVIRONMENTAL PROTECTION AGENCY	1,336	-	604	-	592	-	70	-	70
NATIONAL AERONAUTICS AND SPACE ADMIN	3,967	2	148	-	3,625	192	-	-	-
NATIONAL SCIENCE FOUNDATION	4,455	-	-	-	4,455	-	-	-	-
KANSAS									
TOTAL	470,990	5,754	436,883	-	25,736	-	1,565	-	1,052
DEPARTMENT OF AGRICULTURE	6,415	2,683	72	-	3,560	-	79	-	21
DEPARTMENT OF COMMERCE 2/	3,352	-	1,221	-	2,032	-	80	-	19
DEPARTMENT OF DEFENSE	435,567	338	434,519	-	710	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	14,455	-	-	-	13,022	-	1,376	-	57
DEPARTMENT OF THE INTERIOR	1,467	488	472	-	160	-	-	-	347
DEPARTMENT OF TRANSPORTATION	816	-	297	-	70	-	-	-	449
ENVIRONMENTAL PROTECTION AGENCY	283	-	-	-	124	-	-	-	159
NATIONAL AERONAUTICS AND SPACE ADMIN	4,831	2,245	302	-	2,284	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,804	-	-	-	3,774	-	30	-	-
MINNESOTA									
TOTAL	308,983	23,326	187,343	-	74,568	-	21,707	-	2,039
DEPARTMENT OF AGRICULTURE	13,463	7,629	85	-	5,684	-	30	-	35
DEPARTMENT OF COMMERCE 2/	17,090	4	13,165	-	3,902	-	-	-	19
DEPARTMENT OF DEFENSE	168,416	256	165,873	-	2,287	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	72,261	-	802	-	49,163	-	21,413	-	883
DEPARTMENT OF THE INTERIOR	9,751	8,168	922	-	519	-	-	-	142
DEPARTMENT OF TRANSPORTATION	1,684	-	1,222	-	157	-	-	-	305
ENVIRONMENTAL PROTECTION AGENCY	7,022	3,524	1,430	-	1,157	-	256	-	655
NATIONAL AERONAUTICS AND SPACE ADMIN	9,365	3,745	3,620	-	2,000	-	-	-	-
NATIONAL SCIENCE FOUNDATION	9,931	-	224	-	9,699	-	8	-	-
MISSOURI									
TOTAL	820,378	29,159	692,481	-	81,581	-	11,997	-	5,160
DEPARTMENT OF AGRICULTURE	11,168	3,969	76	-	7,083	-	5	-	35
DEPARTMENT OF COMMERCE 2/	3,677	324	1,032	-	1,375	-	27	-	919
DEPARTMENT OF DEFENSE	705,060	17,565	684,749	-	2,580	-	166	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	71,364	147	120	-	60,932	-	9,597	-	568
DEPARTMENT OF THE INTERIOR	9,100	6,781	348	-	791	-	83	-	1,097
DEPARTMENT OF TRANSPORTATION	3,827	-	403	-	63	-	1,242	-	2,119
ENVIRONMENTAL PROTECTION AGENCY	2,386	-	1,290	-	674	-	-	-	422
NATIONAL AERONAUTICS AND SPACE ADMIN	7,186	373	4,463	-	2,350	-	-	-	-
NATIONAL SCIENCE FOUNDATION	6,610	-	-	-	5,733	-	877	-	-
NEBRASKA									
TOTAL	31,663	9,231	5,029	-	15,287	-	1,233	-	883
DEPARTMENT OF AGRICULTURE	12,301	8,791	192	-	3,306	-	-	-	12
DEPARTMENT OF COMMERCE 2/	1,511	-	-	-	814	-	678	-	19
DEPARTMENT OF DEFENSE	4,877	1	4,625	-	242	-	9	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	6,860	-	-	-	6,353	-	506	-	1
DEPARTMENT OF THE INTERIOR	1,442	439	158	-	281	-	-	-	564
DEPARTMENT OF TRANSPORTATION	331	-	44	-	-	-	-	-	287
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	399	-	10	-	389	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,942	-	-	-	3,902	-	40	-	-

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TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
NORTH DAKOTA									
TOTAL	40,057	23,391	7,711	-	7,395	-	-	-	1,560
DEPARTMENT OF AGRICULTURE	14,177	10,520	367	-	3,206	-	-	-	84
DEPARTMENT OF COMMERCE 2/	11,327	10,321	-	-	723	-	-	-	283
DEPARTMENT OF DEFENSE	7,148	5	7,143	-	-	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	1,573	-	-	-	1,544	-	-	-	29
DEPARTMENT OF THE INTERIOR	5,339	2,545	194	-	1,661	-	-	-	939
DEPARTMENT OF TRANSPORTATION	189	-	7	-	-	-	-	-	182
ENVIRONMENTAL PROTECTION AGENCY	43	-	-	-	-	-	-	-	43
NATIONAL AERONAUTICS AND SPACE ADMIN	13	-	-	-	13	-	-	-	-
NATIONAL SCIENCE FOUNDATION	248	-	-	-	248	-	-	-	-
SOUTH DAKOTA									
TOTAL	10,184	2,619	72	-	4,432	-	2,112	-	949
DEPARTMENT OF AGRICULTURE	4,145	1,845	50	-	2,241	-	-	-	9
DEPARTMENT OF COMMERCE 2/	301	-	-	-	282	-	-	-	19
DEPARTMENT OF DEFENSE	138	84	-	-	54	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	2,729	-	-	-	550	-	2,112	-	67
DEPARTMENT OF THE INTERIOR	2,039	634	-	-	657	-	-	-	748
DEPARTMENT OF TRANSPORTATION	117	-	11	-	-	-	-	-	106
ENVIRONMENTAL PROTECTION AGENCY	105	-	-	-	105	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	146	56	11	-	79	-	-	-	-
NATIONAL SCIENCE FOUNDATION	464	-	-	-	464	-	-	-	-
SOUTH ATLANTIC									
TOTAL	7,238,327	3,805,370	2,472,130	63,162	630,931	29,129	192,669	17,082	27,854
DEPARTMENT OF AGRICULTURE	242,061	193,669	3,222	-	43,257	-	869	-	1,044
DEPARTMENT OF COMMERCE 2/	555,885	327,499	115,863	36,796	43,114	-	29,018	228	3,367
DEPARTMENT OF DEFENSE	3,149,230	1,555,678	1,417,420	-	123,879	14,585	20,761	16,854	53
DEPARTMENT OF HEALTH & HUMAN SRVCS	1,300,329	819,695	89,284	26,366	309,201	-	47,911	-	7,872
DEPARTMENT OF THE INTERIOR	81,551	63,590	9,752	-	4,124	-	680	-	3,405
DEPARTMENT OF TRANSPORTATION	140,811	29,659	82,923	-	3,729	-	16,653	-	7,847
ENVIRONMENTAL PROTECTION AGENCY	107,943	75,235	12,435	-	11,286	-	5,650	-	3,337
NATIONAL AERONAUTICS AND SPACE ADMIN	1,456,409	634,611	738,119	-	24,161	-	59,518	-	-
NATIONAL SCIENCE FOUNDATION	204,108	105,734	3,112	-	68,180	14,544	11,609	-	929
DELAMARE									
TOTAL	25,929	922	15,534	-	8,422	-	499	-	552
DEPARTMENT OF AGRICULTURE	2,351	653	19	-	1,673	-	-	-	6
DEPARTMENT OF COMMERCE 2/	2,263	2	150	-	1,672	-	-	-	439
DEPARTMENT OF DEFENSE	13,855	80	13,251	-	524	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	1,621	-	-	-	1,421	-	200	-	-
DEPARTMENT OF THE INTERIOR	353	183	-	-	122	-	-	-	48
DEPARTMENT OF TRANSPORTATION	845	-	826	-	-	-	-	-	19
ENVIRONMENTAL PROTECTION AGENCY	500	-	397	-	63	-	-	-	40
NATIONAL AERONAUTICS AND SPACE ADMIN	1,034	4	891	-	125	-	14	-	-
NATIONAL SCIENCE FOUNDATION	3,107	-	-	-	2,822	-	285	-	-
DISTRICT OF COLUMBIA									
TOTAL	932,283	700,988	55,900	-	47,501	1,242	82,845	-	3,807
DEPARTMENT OF AGRICULTURE	85,934	83,640	165	-	1,958	-	153	-	18
DEPARTMENT OF COMMERCE 2/	167,135	118,195	22,318	-	7,697	-	18,725	-	200
DEPARTMENT OF DEFENSE	312,988	273,893	29,310	-	5,215	1,242	3,328	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	88,499	35,797	11,480	-	23,874	-	16,454	-	894
DEPARTMENT OF THE INTERIOR	12,661	11,027	498	-	165	-	473	-	498
DEPARTMENT OF TRANSPORTATION	55,035	21,375	23,947	-	1,629	-	5,942	-	2,142
ENVIRONMENTAL PROTECTION AGENCY	16,435	12,863	1,375	-	533	-	1,609	-	55
NATIONAL AERONAUTICS AND SPACE ADMIN	77,632	42,778	5,490	-	3,049	-	26,315	-	-
NATIONAL SCIENCE FOUNDATION	115,964	101,420	1,317	-	3,381	-	9,846	-	-
FLORIDA									
TOTAL	1,634,032	539,436	1,007,493	-	75,994	-	6,652	-	4,457
DEPARTMENT OF AGRICULTURE	18,551	12,387	263	-	5,759	-	-	-	142
DEPARTMENT OF COMMERCE 2/	30,723	15,918	9,276	-	4,999	-	302	-	228
DEPARTMENT OF DEFENSE	911,101	305,455	594,131	-	9,167	-	2,305	-	43
DEPARTMENT OF HEALTH & HUMAN SRVCS	43,451	-	957	-	37,633	-	3,509	-	1,352
DEPARTMENT OF THE INTERIOR	5,409	4,314	20	-	351	-	-	-	724
DEPARTMENT OF TRANSPORTATION	6,533	-	5,034	-	312	-	-	-	1,187
ENVIRONMENTAL PROTECTION AGENCY	6,469	922	1,450	-	2,917	-	399	-	781
NATIONAL AERONAUTICS AND SPACE ADMIN	599,031	200,440	396,333	-	2,258	-	-	-	-
NATIONAL SCIENCE FOUNDATION	12,764	-	29	-	12,598	-	137	-	-

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TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

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GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
GEORGIA									
TOTAL	195,037	58,287	57,775	-	68,043	-	7,347	-	3,585
DEPARTMENT OF AGRICULTURE	29,763	22,632	526	-	6,561	-	-	-	44
DEPARTMENT OF COMMERCE 2/	23,961	506	17,924	-	5,456	-	-	-	75
DEPARTMENT OF DEFENSE	49,499	6,498	30,128	-	12,873	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	54,440	16,254	744	-	29,482	-	7,347	-	613
DEPARTMENT OF THE INTERIOR	4,004	2,996	60	-	572	-	-	-	376
DEPARTMENT OF TRANSPORTATION	2,228	-	560	-	417	-	-	-	1,251
ENVIRONMENTAL PROTECTION AGENCY	8,818	5,963	1,289	-	1,014	-	-	-	552
NATIONAL AERONAUTICS AND SPACE ADMIN	11,997	3,438	6,544	-	2,015	-	-	-	-
NATIONAL SCIENCE FOUNDATION	10,327	-	-	-	9,653	-	-	-	674
MARYLAND									
TOTAL	2,783,448	1,805,724	687,989	26,366	217,254	-	39,546	228	6,341
DEPARTMENT OF AGRICULTURE	63,638	55,174	1,977	-	5,791	-	517	-	176
DEPARTMENT OF COMMERCE 2/	139,825	106,122	22,339	-	8,533	-	1,289	228	1,314
DEPARTMENT OF DEFENSE	1,093,925	694,444	303,531	-	87,454	-	8,496	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	915,566	731,493	56,134	26,366	88,200	-	10,644	-	2,729
DEPARTMENT OF THE INTERIOR	13,417	11,956	943	-	318	-	-	-	200
DEPARTMENT OF TRANSPORTATION	43,764	5,146	36,059	-	642	-	445	-	1,472
ENVIRONMENTAL PROTECTION AGENCY	7,106	1,233	3,660	-	1,216	-	547	-	450
NATIONAL AERONAUTICS AND SPACE ADMIN	487,960	199,288	261,992	-	9,885	-	16,795	-	-
NATIONAL SCIENCE FOUNDATION	18,247	868	1,354	-	15,212	-	813	-	-
NORTH CAROLINA									
TOTAL	259,799	101,136	26,815	-	113,657	-	16,533	-	1,658
DEPARTMENT OF AGRICULTURE	17,398	8,466	126	-	8,770	-	-	-	36
DEPARTMENT OF COMMERCE 2/	11,751	3,171	4,325	-	4,144	-	-	-	111
DEPARTMENT OF DEFENSE	34,398	11,753	16,971	-	4,127	-	1,537	-	10
DEPARTMENT OF HEALTH & HUMAN SRVCS	117,431	26,028	2,850	-	80,530	-	7,729	-	294
DEPARTMENT OF THE INTERIOR	3,506	2,266	456	-	457	-	-	-	327
DEPARTMENT OF TRANSPORTATION	991	332	177	-	202	-	-	-	280
ENVIRONMENTAL PROTECTION AGENCY	56,734	48,752	1,259	-	3,769	-	2,433	-	521
NATIONAL AERONAUTICS AND SPACE ADMIN	6,517	319	461	-	1,245	-	4,492	-	-
NATIONAL SCIENCE FOUNDATION	11,073	49	190	-	10,413	-	342	-	79
SOUTH CAROLINA									
TOTAL	96,109	12,143	14,989	36,796	23,711	-	6,061	-	2,409
DEPARTMENT OF AGRICULTURE	10,004	5,781	97	-	4,117	-	-	-	9
DEPARTMENT OF COMMERCE 2/	58,865	2,023	13,219	36,796	1,089	-	5,701	-	37
DEPARTMENT OF DEFENSE	3,088	641	1,238	-	1,209	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	13,380	-	-	-	11,327	-	360	-	1,693
DEPARTMENT OF THE INTERIOR	2,153	1,436	-	-	395	-	-	-	322
DEPARTMENT OF TRANSPORTATION	603	-	308	-	80	-	-	-	215
ENVIRONMENTAL PROTECTION AGENCY	2,959	2,189	-	-	637	-	-	-	133
NATIONAL AERONAUTICS AND SPACE ADMIN	433	73	100	-	260	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,624	-	27	-	4,597	-	-	-	-
VIRGINIA									
TOTAL	1,160,516	491,181	540,069	-	63,646	13,497	32,793	16,854	2,476
DEPARTMENT OF AGRICULTURE	6,260	412	16	-	5,619	-	195	-	18
DEPARTMENT OF COMMERCE 2/	38,805	4,656	26,309	-	4,637	-	3,001	-	202
DEPARTMENT OF DEFENSE	705,905	262,914	404,408	-	3,291	13,343	5,095	16,854	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	52,806	1,076	17,119	-	33,332	-	1,279	-	-
DEPARTMENT OF THE INTERIOR	33,944	25,177	7,230	-	851	-	207	-	479
DEPARTMENT OF TRANSPORTATION	30,187	2,806	15,990	-	329	-	10,266	-	796
ENVIRONMENTAL PROTECTION AGENCY	7,764	2,681	2,544	-	1,072	-	662	-	805
NATIONAL AERONAUTICS AND SPACE ADMIN	271,611	188,111	66,287	-	5,311	-	11,902	-	-
NATIONAL SCIENCE FOUNDATION	13,234	3,348	166	-	9,204	154	186	-	176
WEST VIRGINIA									
TOTAL	151,174	95,553	25,566	-	12,703	14,390	393	-	2,569
DEPARTMENT OF AGRICULTURE	8,162	4,524	33	-	3,006	-	4	-	595
DEPARTMENT OF COMMERCE 2/	82,557	76,906	3	-	4,887	-	-	-	761
DEPARTMENT OF DEFENSE	24,471	-	24,452	-	19	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	13,135	9,047	-	-	3,402	-	389	-	297
DEPARTMENT OF THE INTERIOR	6,104	4,235	545	-	893	-	-	-	431
DEPARTMENT OF TRANSPORTATION	625	-	22	-	118	-	-	-	485
ENVIRONMENTAL PROTECTION AGENCY	1,158	632	461	-	65	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	194	160	21	-	13	-	-	-	-
NATIONAL SCIENCE FOUNDATION	14,768	49	29	-	300	14,390	-	-	-

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TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

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GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
EAST SOUTH CENTRAL									
TOTAL	1,682,740	504,467	781,949	189,147	158,233	23,854	17,572	-	7,518
DEPARTMENT OF AGRICULTURE	45,737	21,523	493	-	23,522	-	-	-	199
DEPARTMENT OF COMMERCE 2/	619,544	5,559	387,128	186,129	14,807	23,390	319	-	2,212
DEPARTMENT OF DEFENSE	604,251	273,167	320,174	161	10,175	-	574	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	112,995	5,807	363	1,193	89,906	464	14,961	-	301
DEPARTMENT OF THE INTERIOR	11,840	7,561	1,225	-	1,769	-	-	-	1,285
DEPARTMENT OF TRANSPORTATION	5,905	1,609	2,358	-	253	-	-	-	1,745
ENVIRONMENTAL PROTECTION AGENCY	7,[illegible]	1,619	2,671	-	1,229	-	20	-	1,776
NATIONAL AERONAUTICS AND SPACE ADMIN	260,7[illegible]	187,552	67,352	-	4,533	-	1,337	-	-
NATIONAL SCIENCE FOUNDATION	14,319	70	185	1,664	12,039	-	361	-	-
ALABAMA									
TOTAL	572,597	337,786	172,748	-	50,148	-	9,485	-	2,430
DEPARTMENT OF AGRICULTURE	9,059	2,501	46	-	6,374	-	-	-	138
DEPARTMENT OF COMMERCE 2/	13,755	-	11,137	-	1,534	-	-	-	1,084
DEPARTMENT OF DEFENSE	261,837	153,158	105,651	-	2,645	-	383	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	42,835	-	165	-	34,897	-	7,729	-	44
DEPARTMENT OF THE INTERIOR	5,993	4,085	1,220	-	353	-	-	-	335
DEPARTMENT OF TRANSPORTATION	2,589	778	1,138	-	238	-	-	-	435
ENVIRONMENTAL PROTECTION AGENCY	1,370	-	643	-	313	-	20	-	394
NATIONAL AERONAUTICS AND SPACE ADMIN	233,633	177,264	52,748	-	2,343	-	1,278	-	-
NATIONAL SCIENCE FOUNDATION	1,526	-	-	-	1,451	-	75	-	-
KENTUCKY									
TOTAL	101,049	18,407	60,392	-	20,176	-	623	-	1,451
DEPARTMENT OF AGRICULTURE	7,340	1,299	19	-	5,988	-	-	-	34
DEPARTMENT OF COMMERCE 2/	59,551	-	57,656	-	1,776	-	-	-	119
DEPARTMENT OF DEFENSE	12,034	10,414	1,350	-	270	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	15,367	5,736	198	-	8,973	-	460	-	-
DEPARTMENT OF THE INTERIOR	1,908	946	5	-	572	-	-	-	385
DEPARTMENT OF TRANSPORTATION	499	-	29	-	-	-	-	-	470
ENVIRONMENTAL PROTECTION AGENCY	1,540	-	1,097	-	-	-	-	-	443
NATIONAL AERONAUTICS AND SPACE ADMIN	700	12	38	-	650	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,110	-	-	-	1,947	-	163	-	-
MISSISSIPPI									
TOTAL	125,499	72,610	24,570	-	25,774	-	813	-	1,732
DEPARTMENT OF AGRICULTURE	22,982	16,793	400	-	5,770	-	-	-	19
DEPARTMENT OF COMMERCE 2/	8,224	3,321	3,168	-	1,105	-	-	-	630
DEPARTMENT OF DEFENSE	61,521	46,504	9,549	-	5,277	-	191	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	7,858	-	-	-	7,265	-	563	-	30
DEPARTMENT OF THE INTERIOR	1,406	881	-	-	372	-	-	-	153
DEPARTMENT OF TRANSPORTATION	1,361	831	17	-	-	-	-	-	513
ENVIRONMENTAL PROTECTION AGENCY	832	-	-	-	445	-	-	-	387
NATIONAL AERONAUTICS AND SPACE ADMIN	16,324	4,223	11,418	-	624	-	59	-	-
NATIONAL SCIENCE FOUNDATION	4,991	57	18	-	4,916	-	-	-	-
TENNESSEE									
TOTAL	883,595	75,664	524,239	189,147	62,135	23,854	6,651	-	1,905
DEPARTMENT OF AGRICULTURE	6,356	930	28	-	5,390	-	-	-	8
DEPARTMENT OF COMMERCE 2/	538,014	2,238	315,167	186,129	10,392	23,390	319	-	379
DEPARTMENT OF DEFENSE	268,859	63,091	203,624	161	1,983	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	46,935	71	-	1,193	38,771	464	6,209	-	227
DEPARTMENT OF THE INTERIOR	2,533	1,649	-	-	472	-	-	-	412
DEPARTMENT OF TRANSPORTATION	1,516	-	1,174	-	15	-	-	-	327
ENVIRONMENTAL PROTECTION AGENCY	3,573	1,619	931	-	471	-	-	-	552
NATIONAL AERONAUTICS AND SPACE ADMIN	10,117	6,053	3,148	-	916	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,692	13	167	1,664	3,725	-	123	-	-
WEST SOUTH CENTRAL									
TOTAL	1,691,227	346,079	1,014,615	1	282,521	19	32,296	-	15,696
DEPARTMENT OF AGRICULTURE	83,445	54,948	712	-	27,521	-	-	-	264
DEPARTMENT OF COMMERCE 2/	137,487	30,436	70,407	1	31,010	-	2,633	-	3,000
DEPARTMENT OF DEFENSE	461,353	45,536	397,789	-	14,335	-	3,650	-	43
DEPARTMENT OF HEALTH & HUMAN SRVCS	181,475	9,922	1,637	-	15[illegible],096	-	11,351	-	1,469
DEPARTMENT OF THE INTERIOR	14,385	6,821	169	-	2,510	19	1,490	-	3,376
DEPARTMENT OF TRANSPORTATION	45,988	3,075	28,801	-	4,965	-	3,698	-	5,449
ENVIRONMENTAL PROTECTION AGENCY	19,837	6,103	5,392	-	4,405	-	1,848	-	2,089
NATIONAL AERONAUTICS AND SPACE ADMIN	717,322	189,238	509,282	-	11,754	-	7,048	-	-
NATIONAL SCIENCE FOUNDATION	29,935	-	426	-	28,925	-	578	-	6

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TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1961

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
ARKANSAS									
TOTAL	31,186	14,897	1,892	-	11,459	19	623	-	2,296
DEPARTMENT OF AGRICULTURE	6,311	1,604	2	-	4,684	-	-	-	21
DEPARTMENT OF COMMERCE 2/	2,138	-	691	-	516	-	-	-	931
DEPARTMENT OF DEFENSE	1,519	18	750	-	751	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	12,999	9,812	-	-	2,175	-	623	-	389
DEPARTMENT OF THE INTERIOR	2,140	1,737	24	-	325	19	-	-	35
DEPARTMENT OF TRANSPORTATION	1,131	-	307	-	270	-	-	-	554
ENVIRONMENTAL PROTECTION AGENCY	804	-	-	-	444	-	-	-	360
NATIONAL AERONAUTICS AND SPACE ADMIN	2,054	1,726	118	-	210	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,090	-	-	-	2,084	-	-	-	6
LOUISIANA									
TOTAL	331,751	36,644	255,623	-	33,621	-	2,263	-	3,600
DEPARTMENT OF AGRICULTURE	33,004	28,735	113	-	4,143	-	-	-	13
DEPARTMENT OF COMMERCE 2/	43,323	-	35,618	-	6,717	-	-	-	988
DEPARTMENT OF DEFENSE	21,426	3,599	17,364	-	375	-	58	-	30
DEPARTMENT OF HEALTH & HUMAN SRVCS	20,858	-	-	-	18,481	-	2,205	-	172
DEPARTMENT OF THE INTERIOR	1,035	1,272	63	-	221	-	-	-	479
DEPARTMENT OF TRANSPORTATION	3,270	691	1,377	-	-	-	-	-	1,202
ENVIRONMENTAL PROTECTION AGENCY	830	-	-	-	114	-	-	-	716
NATIONAL AERONAUTICS AND SPACE ADMIN	203,935	2,347	201,088	-	500	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,070	-	-	-	3,070	-	-	-	-
OKLAHOMA									
TOTAL	82,423	45,652	12,103	-	20,396	-	2,882	-	1,390
DEPARTMENT OF AGRICULTURE	8,786	4,847	107	-	3,817	-	-	-	15
DEPARTMENT OF COMMERCE 2/	30,125	27,936	284	-	1,833	-	53	-	19
DEPARTMENT OF DEFENSE	5,284	1,850	1,809	-	1,625	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	8,795	-	-	-	6,879	-	1,915	-	1
DEPARTMENT OF THE INTERIOR	1,719	641	20	-	681	-	-	-	377
DEPARTMENT OF TRANSPORTATION	11,484	1,804	8,930	-	10	-	-	-	740
ENVIRONMENTAL PROTECTION AGENCY	8,845	6,103	792	-	1,462	-	250	-	238
NATIONAL AERONAUTICS AND SPACE ADMIN	4,894	2,471	83	-	1,944	-	396	-	-
NATIONAL SCIENCE FOUNDATION	2,491	-	78	-	2,145	-	268	-	-
TEXAS									
TOTAL	1,245,867	248,886	744,997	1	217,045	-	26,528	-	8,410
DEPARTMENT OF AGRICULTURE	35,344	19,762	490	-	14,877	-	-	-	215
DEPARTMENT OF COMMERCE 2/	61,901	2,500	33,814	1	21,944	-	2,580	-	1,062
DEPARTMENT OF DEFENSE	433,124	40,069	377,866	-	11,584	-	3,592	-	13
DEPARTMENT OF HEALTH & HUMAN SRVCS	138,823	110	1,637	-	129,561	-	6,608	-	907
DEPARTMENT OF THE INTERIOR	8,491	3,171	62	-	1,283	-	1,490	-	2,485
DEPARTMENT OF TRANSPORTATION	30,103	580	18,187	-	4,685	-	3,698	-	2,953
ENVIRONMENTAL PROTECTION AGENCY	9,358	-	4,600	-	2,385	-	1,595	-	775
NATIONAL AERONAUTICS AND SPACE ADMIN	506,439	182,694	307,993	-	9,100	-	6,652	-	-
NATIONAL SCIENCE FOUNDATION	22,284	-	348	-	21,626	-	310	-	-
MOUNTAIN									
TOTAL	3,016,436	604,178	1,057,013	497,783	247,660	431,393	35,269	119,881	23,259
DEPARTMENT OF AGRICULTURE	66,270	45,160	442	-	20,431	-	86	-	151
DEPARTMENT OF COMMERCE 2/	1,396,811	87,249	273,766	487,897	31,814	376,629	18,308	119,881	1,267
DEPARTMENT OF DEFENSE	930,564	297,883	577,662	9,462	35,193	9,121	1,225	-	18
DEPARTMENT OF HEALTH & HUMAN SRVCS	114,519	9,176	1,637	366	89,610	-	9,582	-	4,148
DEPARTMENT OF THE INTERIOR	101,616	70,618	6,650	58	8,493	976	39	-	14,782
DEPARTMENT OF TRANSPORTATION	18,534	5,495	9,775	-	766	-	-	-	2,518
ENVIRONMENTAL PROTECTION AGENCY	19,184	5,639	5,270	-	6,310	-	1,590	-	375
NATIONAL AERONAUTICS AND SPACE ADMIN	284,115	82,564	181,166	-	17,062	-	3,323	-	-
NATIONAL SCIENCE FOUNDATION	84,803	394	645	-	37,981	44,667	1,116	-	-
ARIZONA									
TOTAL	367,680	128,982	177,108	-	44,713	11,103	2,664	-	3,110
DEPARTMENT OF AGRICULTURE	12,572	9,765	15	-	2,790	-	-	-	2
DEPARTMENT OF COMMERCE 2/	13,475	1	10,884	-	2,158	-	-	-	432
DEPARTMENT OF DEFENSE	198,725	41,631	150,921	-	6,078	-	95	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	21,277	2,881	-	-	17,411	-	756	-	229
DEPARTMENT OF THE INTERIOR	6,471	3,624	218	-	1,038	-	39	-	1,552
DEPARTMENT OF TRANSPORTATION	2,561	-	1,696	-	52	-	-	-	813
ENVIRONMENTAL PROTECTION AGENCY	596	-	-	-	514	-	-	-	82
NATIONAL AERONAUTICS AND SPACE ADMIN	91,496	71,080	13,374	-	5,515	-	1,527	-	-
NATIONAL SCIENCE FOUNDATION	20,507	-	-	-	9,157	11,103	247	-	-

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TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
COLORADO									
TOTAL	632,817	98,327	286,533	-	78,264	32,337	11,237	119,881	6,238
DEPARTMENT OF AGRICULTURE	16,047	11,596	161	-	4,252	-	-	-	38
DEPARTMENT OF COMMERCE 2/	193,545	37,954	22,150	-	11,650	690	1,201	119,881	19
DEPARTMENT OF DEFENSE	183,937	2,536	176,543	-	4,717	-	141	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	43,309	115	77	-	33,623	-	6,249	-	3,245
DEPARTMENT OF THE INTERIOR	45,850	36,773	4,796	-	1,948	-	-	-	2,333
DEPARTMENT OF TRANSPORTATION	13,968	5,174	7,839	-	501	-	-	-	454
ENVIRONMENTAL PROTECTION AGENCY	8,915	1,262	3,762	-	2,680	-	1,062	-	149
NATIONAL AERONAUTICS AND SPACE ADMIN	81,164	2,733	71,004	-	5,631	-	1,796	-	-
NATIONAL SCIENCE FOUNDATION	46,082	184	201	-	13,262	31,647	788	-	-
IDAHO									
TOTAL	119,524	9,482	7,769	64,541	5,560	29,588	350	-	2,234
DEPARTMENT OF AGRICULTURE	10,269	5,979	85	-	4,172	-	-	-	33
DEPARTMENT OF COMMERCE 2/	102,353	359	7,552	64,483	104	29,588	126	-	141
DEPARTMENT OF DEFENSE	-	-	-	-	-	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	677	-	-	-	415	-	224	-	38
DEPARTMENT OF THE INTERIOR	5,291	2,967	4	58	421	-	-	-	1,841
DEPARTMENT OF TRANSPORTATION	117	-	15	-	-	-	-	-	102
ENVIRONMENTAL PROTECTION AGENCY	183	-	-	-	104	-	-	-	79
NATIONAL AERONAUTICS AND SPACE ADMIN	340	177	113	-	50	-	-	-	-
NATIONAL SCIENCE FOUNDATION	294	-	-	-	294	-	-	-	-
MONTANA									
TOTAL	45,405	19,738	11,468	-	7,458	-	1,133	-	5,608
DEPARTMENT OF AGRICULTURE	10,560	7,919	64	-	2,474	-	86	-	17
DEPARTMENT OF COMMERCE 2/	12,167	-	11,080	-	518	-	550	-	19
DEPARTMENT OF DEFENSE	617	51	264	-	302	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	7,729	6,179	-	-	858	-	497	-	195
DEPARTMENT OF THE INTERIOR	10,339	4,853	-	-	370	-	-	-	5,116
DEPARTMENT OF TRANSPORTATION	254	-	18	-	-	-	-	-	236
ENVIRONMENTAL PROTECTION AGENCY	875	-	-	-	850	-	-	-	25
NATIONAL AERONAUTICS AND SPACE ADMIN	898	736	12	-	150	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,966	-	30	-	1,936	-	-	-	-
NEVADA									
TOTAL	262,979	32,481	215,222	-	6,530	-	7,616	-	1,130
DEPARTMENT OF AGRICULTURE	1,750	760	16	-	974	-	-	-	-
DEPARTMENT OF COMMERCE 2/	217,795	-	209,208	-	1,532	-	7,036	-	19
DEPARTMENT OF DEFENSE	24,526	20,556	3,870	-	100	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	627	-	-	-	575	-	52	-	-
DEPARTMENT OF THE INTERIOR	8,281	6,450	107	-	750	-	-	-	970
DEPARTMENT OF TRANSPORTATION	164	-	21	-	2	-	-	-	141
ENVIRONMENTAL PROTECTION AGENCY	7,428	4,377	1,508	-	1,015	-	528	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	1,183	118	492	-	573	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,219	210	-	-	1,009	-	-	-	-
NEW MEXICO									
TOTAL	1,224,140	222,961	157,164	433,242	39,169	353,365	11,316	-	1,923
DEPARTMENT OF AGRICULTURE	3.3	1,450	27	-	1,910	-	-	-	1
DEPARTMENT OF COMMERCE 2/	798,506	5,887	10,489	423,414	2,591	346,351	9,395	-	379
DEPARTMENT OF DEFENSE	371,416	202,844	132,359	9,462	16,623	9,121	989	-	18
DEPARTMENT OF HEALTH & HUMAN SRVCS	12,486	1	-	366	11,090	-	932	-	97
DEPARTMENT OF THE INTERIOR	8,558	5,045	609	-	650	976	-	-	1,278
DEPARTMENT OF TRANSPORTATION	634	321	55	-	148	-	-	-	110
ENVIRONMENTAL PROTECTION AGENCY	104	-	-	-	64	-	-	-	40
NATIONAL AERONAUTICS AND SPACE ADMIN	23,690	7,413	13,537	-	2,740	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,358	-	88	-	3,353	1,917	-	-	-
UTAH									
TOTAL	305,657	43,107	201,607	-	57,199	-	953	-	2,791
DEPARTMENT OF AGRICULTURE	8,411	5,925	52	-	2,375	-	-	-	59
DEPARTMENT OF COMMERCE 2/	14,736	-	2,403	-	12,094	-	-	-	239
DEPARTMENT OF DEFENSE	150,919	30,255	113,608	-	7,056	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	27,841	-	1,560	-	25,065	-	872	-	344
DEPARTMENT OF THE INTERIOR	10,711	6,620	916	-	1,483	-	-	-	1,692
DEPARTMENT OF TRANSPORTATION	628	-	108	-	63	-	-	-	457
ENVIRONMENTAL PROTECTION AGENCY	319	-	-	-	319	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	85,056	307	82,634	-	2,115	-	-	-	-
NATIONAL SCIENCE FOUNDATION	7,036	-	326	-	6,629	-	81	-	-

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TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WYOMING									
TOTAL	58,234	49,100	142	-	8,767	-	-	-	225
DEPARTMENT OF AGRICULTURE	3,273	1,766	22	-	1,484	-	-	-	1
DEPARTMENT OF COMMERCE 2/	44,234	43,048	-	-	1,167	-	-	-	19
DEPARTMENT OF DEFENSE	424	10	97	-	317	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	573	-	-	-	573	-	-	-	-
DEPARTMENT OF THE INTERIOR	6,109	4,276	-	-	1,833	-	-	-	-
DEPARTMENT OF TRANSPORTATION	228	-	23	-	-	-	-	-	205
ENVIRONMENTAL PROTECTION AGENCY	764	-	-	-	764	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	288	-	-	-	288	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,341	-	-	-	2,341	-	-	-	-
PACIFIC									
TOTAL	9,220,848	1,147,394	5,921,431	152,154	790,919	707,035	191,977	266,830	43,108
DEPARTMENT OF AGRICULTURE	90,922	61,443	1,160	-	27,954	-	76	-	289
DEPARTMENT OF COMMERCE 2/	1,139,869	54,503	250,831	152,154	66,975	543,884	3,645	64,005	3,872
DEPARTMENT OF DEFENSE	5,130,963	848,625	3,923,509	-	76,713	35,629	46,374	200,039	74
DEPARTMENT OF HEALTH & HUMAN SRVCS	560,227	4,049	19,294	-	385,178	10,772	120,710	1,720	18,504
DEPARTMENT OF THE INTERIOR	97,441	62,914	16,884	-	7,746	176	242	308	9,171
DEPARTMENT OF TRANSPORTATION	44,423	4,368	29,146	-	2,204	-	-	-	8,705
ENVIRONMENTAL PROTECTION AGENCY	29,400	10,340	6,292	-	8,216	-	2,318	-	2,234
NATIONAL AERONAUTICS AND SPACE ADMIN	1,939,980	101,152	1,665,725	-	47,321	115,941	9,133	650	58
NATIONAL SCIENCE FOUNDATION	187,623	-	8,590	-	168,612	633	9,479	108	201
ALASKA									
TOTAL	51,829	25,898	2,158	-	18,747	-	666	-	4,360
DEPARTMENT OF AGRICULTURE	5,658	4,183	13	-	1,457	-	-	-	5
DEPARTMENT OF COMMERCE 2/	6,883	3,999	134	-	2,199	-	3	-	548
DEPARTMENT OF DEFENSE	12,457	5,882	1,039	-	5,009	-	527	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	1,650	-	-	-	1,439	-	-	-	211
DEPARTMENT OF THE INTERIOR	13,987	10,828	-	-	305	-	-	-	2,854
DEPARTMENT OF TRANSPORTATION	1,142	177	361	-	109	-	-	-	495
ENVIRONMENTAL PROTECTION AGENCY	1,435	750	-	-	424	-	43	-	218
NATIONAL AERONAUTICS AND SPACE ADMIN	2,175	79	611	-	1,363	-	93	-	29
NATIONAL SCIENCE FOUNDATION	6,442	-	-	-	6,442	-	-	-	-
CALIFORNIA									
TOTAL	7,965,966	997,276	5,247,331	28,904	595,545	707,035	157,800	202,904	29,171
DEPARTMENT OF AGRICULTURE	48,581	33,280	728	-	14,336	-	62	-	175
DEPARTMENT OF COMMERCE 2/	830,919	8,173	197,879	28,904	45,990	543,884	1,977	1,845	2,267
DEPARTMENT OF DEFENSE	4,489,872	816,856	3,332,522	-	59,697	35,629	45,567	199,527	74
DEPARTMENT OF HEALTH & HUMAN SRVCS	436,557	2,556	17,654	-	297,733	10,772	90,922	899	16,021
DEPARTMENT OF THE INTERIOR	51,438	28,874	14,647	-	4,579	176	242	50	2,870
DEPARTMENT OF TRANSPORTATION	34,556	4,048	23,236	-	1,363	-	-	-	5,909
ENVIRONMENTAL PROTECTION AGENCY	17,080	3,071	5,242	-	5,255	-	1,828	-	1,684
NATIONAL AERONAUTICS AND SPACE ADMIN	1,911,438	100,418	1,647,366	-	38,150	115,941	9,034	500	29
NATIONAL SCIENCE FOUNDATION	145,525	-	8,057	-	128,442	633	8,168	83	142
HAWAII									
TOTAL	49,897	13,738	8,243	-	23,746	-	3,423	-	747
DEPARTMENT OF AGRICULTURE	4,021	1,850	136	-	1,971	-	-	-	64
DEPARTMENT OF COMMERCE 2/	6,318	1,876	877	-	3,531	-	8	-	26
DEPARTMENT OF DEFENSE	16,354	7,210	7,127	-	1,863	-	154	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	10,326	129	-	-	7,672	-	2,418	-	107
DEPARTMENT OF THE INTERIOR	3,394	2,417	-	-	599	-	-	-	378
DEPARTMENT OF TRANSPORTATION	338	143	23	-	-	-	-	-	172
ENVIRONMENTAL PROTECTION AGENCY	267	-	-	-	267	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	3,531	113	50	-	3,368	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,348	-	30	-	4,475	-	843	-	-
OREGON									
TOTAL	105,620	32,040	13,579	-	48,271	-	8,367	-	3,363
DEPARTMENT OF AGRICULTURE	18,758	13,389	75	-	5,265	-	7	-	22
DEPARTMENT OF COMMERCE 2/	13,541	922	8,297	-	3,939	-	10	-	373
DEPARTMENT OF DEFENSE	5,870	1,530	350	-	3,990	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	28,430	-	13	-	20,313	-	8,000	-	104
DEPARTMENT OF THE INTERIOR	15,390	10,823	1,472	-	1,124	-	-	-	1,971
DEPARTMENT OF TRANSPORTATION	1,419	-	434	-	119	-	-	-	866
ENVIRONMENTAL PROTECTION AGENCY	6,902	5,364	-	-	1,245	-	266	-	27
NATIONAL AERONAUTICS AND SPACE ADMIN	3,955	12	2,728	-	1,215	-	-	-	-
NATIONAL SCIENCE FOUNDATION	11,355	-	210	-	11,061	-	84	-	-

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TABLE C-105. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WASHINGTON									
TOTAL	1,047,536	78,442	650,120	123,250	104,610	-	21,721	63,926	5,467
DEPARTMENT OF AGRICULTURE	13,904	8,741	208	-	4,925	-	7	-	23
DEPARTMENT OF COMMERCE 2/	282,208	39,533	43,644	123,250	11,316	-	1,647	62,160	658
DEPARTMENT OF DEFENSE	606,410	17,147	582,471	-	6,154	-	126	512	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	83,264	1,364	1,627	-	58,021	-	19,370	821	2,061
DEPARTMENT OF THE INTERIOR	13,232	9,972	765	-	1,139	-	-	258	1,098
DEPARTMENT OF TRANSPORTATION	6,968	-	5,092	-	613	-	-	-	1,263
ENVIRONMENTAL PROTECTION AGENCY	3,716	1,155	1,050	-	1,025	-	181	-	305
NATIONAL AERONAUTICS AND SPACE ADMIN	18,881	530	14,970	-	3,225	-	6	150	-
NATIONAL SCIENCE FOUNDATION	18,953	-	293	-	18,192	-	384	25	59
OUTLYING AREAS									
TOTAL	38,885	14,301	5,808	-	12,509	5,407	12	-	848
DEPARTMENT OF AGRICULTURE	6,533	1,826	35	-	4,637	-	-	-	35
DEPARTMENT OF COMMERCE 2/	3,403	143	9	-	2,799	-	4	-	448
DEPARTMENT OF DEFENSE	14,372	8,218	5,674	-	480	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	4,296	477	-	-	3,454	-	-	-	365
DEPARTMENT OF THE INTERIOR	3,913	3,539	-	-	366	-	8	-	-
DEPARTMENT OF TRANSPORTATION	90	-	90	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	356	98	-	-	258	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,922	-	-	-	515	5,407	-	-	-
OFFICES ABROAD									
TOTAL	47,155	14,760	24,694	-	2,134	5,528	39	-	-
DEPARTMENT OF AGRICULTURE	1,796	1,015	2	-	779	-	-	-	-
DEPARTMENT OF COMMERCE 2/	352	-	352	-	-	-	-	-	-
DEPARTMENT OF DEFENSE	38,567	13,745	23,428	-	1,355	-	39	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	-	-	-	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR	-	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION	1	-	1	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	911	-	911	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,528	-	-	-	-	5,528	-	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

NOTE: THE OBLIGATIONS OF THE NINE MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 96 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-106. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE, AND PERFORMER SUPPORTED: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL						
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITU-TIONS	FFRDCS ADMIN BY NONPROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
TOTAL	1,454,428	452,313	300,980	241,192	36,793	369,315	39,229	14,606	-
NEW ENGLAND	54,206	39,199	55	7,196	7,708	48	-	-	-
CONNECTICUT	9,201	1,378	20	7,196	607	-	-	-	-
MAINE	13	13	-	-	-	-	-	-	-
MASSACHUSETTS	35,678	28,778	26	-	6,826	48	-	-	-
NEW HAMPSHIRE	7,686	7,677	9	-	-	-	-	-	-
RHODE ISLAND	1,614	1,339	-	-	275	-	-	-	-
VERMONT	14	14	-	-	-	-	-	-	-
MIDDLE ATLANTIC	236,107	25,275	66,500	45,864	6,282	90,363	1,823	-	-
NEW JERSEY	55,741	9,670	3,557	-	60	40,631	1,823	-	-
NEW YORK	85,120	9,118	150	21,479	4,641	49,732	-	-	-
PENNSYLVANIA	95,246	6,487	62,793	24,385	1,581	-	-	-	-
EAST NORTH CENTRAL	152,643	43,499	40,739	4,402	10,975	53,028	-	-	-
ILLINOIS	74,071	1,102	19,160	-	781	53,028	-	-	-
INDIANA	931	66	-	-	865	-	-	-	-
MICHIGAN	9,460	192	1,000	-	8,268	-	-	-	-
OHIO	65,209	40,228	20,579	4,402	-	-	-	-	-
WISCONSIN	2,972	1,911	-	-	1,061	-	-	-	-
WEST NORTH CENTRAL	7,133	3,920	1,616	-	50	1,547	-	-	-
IOWA	2,063	466	-	-	50	1,547	-	-	-
KANSAS	98	98	-	-	-	-	-	-	-
MINNESOTA	534	534	-	-	-	-	-	-	-
MISSOURI	1,782	166	1,616	-	-	-	-	-	-
NEBRASKA	585	585	-	-	-	-	-	-	-
NORTH DAKOTA	1,355	1,355	-	-	-	-	-	-	-
SOUTH DAKOTA	716	716	-	-	-	-	-	-	-
SOUTH ATLANTIC	170,262	138,874	12,270	4,321	2,882	400	11,515	-	-
DELAWARE	1,592	860	581	-	151	-	-	-	-
DISTRICT OF COLUMBIA	31,653	29,538	-	-	2,115	-	-	-	-
FLORIDA	25,474	24,524	950	-	-	-	-	-	-
GEORGIA	1,580	574	-	543	463	-	-	-	-
MARYLAND	52,323	47,403	4,770	-	150	-	-	-	-
NORTH CAROLINA	1,161	761	400	-	-	-	-	-	-
SOUTH CAROLINA	18,824	134	3,397	3,778	-	-	11,515	-	-
VIRGINIA	33,937	31,762	2,172	-	3	-	-	-	-
WEST VIRGINIA	3,718	3,318	-	-	-	400	-	-	-
EAST SOUTH CENTRAL	109,648	18,834	44,431	46,123	-	560	-	-	-
ALABAMA	16,481	6,481	10,000	-	-	-	-	-	-
KENTUCKY	4,269	18	4,251	-	-	-	-	-	-
MISSISSIPPI	3,394	3,394	-	-	-	-	-	-	-
TENNESSEE	85,504	8,941	29,880	46,123	-	560	-	-	-
WEST SOUTH CENTRAL	31,349	28,607	2,336	-	377	-	29	-	-
ARKANSAS	722	722	-	-	-	-	-	-	-
LOUISIANA	14,053	14,053	-	-	-	-	-	-	-
OKLAHOMA	2,668	2,668	-	-	-	-	-	-	-
TEXAS	13,906	11,164	2,336	-	377	-	29	-	-
MOUNTAIN	244,927	33,272	66,162	53,977	1,237	58,517	25,842	5,920	-
ARIZONA	381	248	100	-	33	-	-	-	-
COLORADO	26,874	19,558	1,246	-	150	-	-	5,920	-
IDAHO	11,916	248	4,265	3,189	-	4,164	50	-	-
MONTANA	95	95	-	-	-	-	-	-	-
NEVADA	82,904	34	44,993	37,877	-	-	-	-	-
NEW MEXICO	119,252	9,990	15,557	12,911	649	54,353	25,792	-	-
UTAH	1,479	1,073	1	-	405	-	-	-	-
WYOMING	2,026	2,026	-	-	-	-	-	-	-
PACIFIC	446,177	119,161	67,171	79,309	7,262	164,568	20	8,686	-
ALASKA	11	11	-	-	-	-	-	-	-
CALIFORNIA	355,425	117,964	59,562	8,015	5,296	164,568	20	-	-
HAWAII	722	33	689	-	-	-	-	-	-
OREGON	1,047	244	-	-	803	-	-	-	-
WASHINGTON	88,972	909	6,920	71,294	1,163	-	-	8,686	-
OUTLYING AREAS	660	356	-	-	20	284	-	-	-
OFFICES ABROAD	1,316	1,316	-	-	-	-	-	-	-

NOTE: THE OBLIGATIONS OF THE NINE MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-107. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE, AND AGENCY: FISCAL YEAR 1981

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE 1/	DEPT OF DEFENSE	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL	1,454,428	20,750	979,524	277,700	23,711	3,453	18,914	-	115,750	14,626
NEW ENGLAND	54,206	80	12,599	41,163	-	-	14	-	-	350
CONNECTICUT	9,201	-	7,453	1,398	-	-	-	-	-	350
MAINE	13	13	-	-	-	-	-	-	-	-
MASSACHUSETTS	35,678	67	4,871	30,740	-	-	-	-	-	-
NEW HAMPSHIRE	7,686	-	-	7,686	-	-	-	-	-	-
RHODE ISLAND	1,614	-	275	1,339	-	-	-	-	-	-
VERMONT	14	-	-	-	-	-	14	-	-	-
MIDDLE ATLANTIC	236,107	1,981	211,039	11,199	743	160	9,222	-	-	1,763
NEW JERSEY	55,741	6	45,942	764	-	-	9,029	-	-	-
NEW YORK	85,120	1,037	73,828	7,749	743	-	-	-	-	1,763
PENNSYLVANIA	95,246	938	91,269	2,686	-	160	193	-	-	-
EAST NORTH CENTRAL	152,643	2,222	107,774	25,437	318	615	500	-	14,142	1,635
ILLINOIS	74,071	489	72,426	430	318	-	-	-	-	408
INDIANA	931	65	365	1	-	-	-	-	-	500
MICHIGAN	9,460	192	9,268	-	-	-	-	-	-	-
OHIO	65,209	180	25,381	25,006	-	-	500	-	14,142	-
WISCONSIN	2,972	1,296	334	-	-	615	-	-	-	727
WEST NORTH CENTRAL	7,133	3,394	3,659	-	-	80	-	-	-	-
IOWA	2,063	466	1,597	-	-	-	-	-	-	-
KANSAS	98	98	-	-	-	-	-	-	-	-
MINNESOTA	534	534	-	-	-	-	-	-	-	-
MISSOURI	1,782	86	1,616	-	-	80	-	-	-	-
NEBRASKA	585	585	-	-	-	-	-	-	-	-
NORTH DAKOTA	1,355	909	446	-	-	-	-	-	-	-
SOUTH DAKOTA	716	716	-	-	-	-	-	-	-	-
SOUTH ATLANTIC	170,262	4,798	33,749	52,008	20,984	1,175	581	-	49,298	7,669
DELAWARE	1,592	88	772	-	-	-	581	-	-	151
DISTRICT OF COLUMBIA	31,653	865	2,496	9,133	-	-	-	-	12,041	7,118
FLORIDA	25,474	815	950	18,423	-	50	-	-	5,236	-
GEORGIA	1,580	469	1,086	-	-	25	-	-	-	-
MARYLAND	52,323	2,117	5,138	20,502	20,464	-	-	-	4,102	-
NORTH CAROLINA	1,161	241	-	-	520	400	-	-	-	-
SOUTH CAROLINA	18,824	134	18,690	-	-	-	-	-	-	-
VIRGINIA	33,937	15	2,053	3,950	-	-	-	-	27,919	-
WEST VIRGINIA	3,718	54	2,564	-	-	700	-	-	-	400
EAST SOUTH CENTRAL	109,648	492	90,985	10,551	-	120	-	-	7,500	-
ALABAMA	16,481	45	10,000	-	-	120	-	-	6,316	-
KENTUCKY	4,269	18	4,251	-	-	-	-	-	-	-
MISSISSIPPI	3,394	413	-	1,797	-	-	-	-	1,184	-
TENNESSEE	85,504	16	76,734	8,754	-	-	-	-	-	-
WEST SOUTH CENTRAL	31,349	2,457	5,047	6,693	700	-	-	-	16,452	-
ARKANSAS	722	22	-	-	700	-	-	-	-	-
LOUISIANA	14,053	911	-	425	-	-	-	-	12,717	-
OKLAHOMA	2,668	363	2,305	-	-	-	-	-	-	-
TEXAS	13,906	1,161	2,742	6,268	-	-	-	-	3,735	-
MOUNTAIN	244,927	2,487	212,733	25,655	33	979	3,040	-	-	-
ARIZONA	381	247	-	101	33	-	-	-	-	-
COLORADO	26,874	705	7,387	15,742	-	-	3,040	-	-	-
IDAHO	11,916	238	11,678	-	-	-	-	-	-	-
MONTANA	95	95	-	-	-	-	-	-	-	-
NEVADA	82,904	13	82,880	11	-	-	-	-	-	-
NEW MEXICO	119,252	200	108,902	9,800	-	350	-	-	-	-
UTAH	1,479	444	405	1	-	629	-	-	-	-
WYOMING	2,026	545	1,481	-	-	-	-	-	-	-
PACIFIC	446,177	2,483	301,919	103,678	933	324	5,557	-	28,358	2,925
ALASKA	11	11	-	-	-	-	-	-	-	-
CALIFORNIA	355,425	1,660	214,116	102,989	374	-	5,557	-	28,358	2,371
HAWAII	722	33	-	689	-	-	-	-	-	-
OREGON	1,047	244	803	-	-	-	-	-	-	-
WASHINGTON	88,972	535	87,000	-	559	324	-	-	-	554
OUTLYING AREAS	660	356	20	-	-	-	-	-	-	284
OFFICES ABROAD	1,316	-	-	1,316	-	-	-	-	-	-

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

NOTE: THE OBLIGATIONS OF THE NINE MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 97 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-108. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1981			ESTIMATES					
				1982			1983		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	8,728,751	4,357,810	49.9%	9,645,081	4,391,453	45.5%	10,164,256	4,789,600	47.1%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	511,360	305,473	59.7	520,650	300,442	57.7	546,988	289,496	52.9
AGRICULTURAL COOPERATIVE SERVICE	1,213	762	62.8	908	594	65.4	1,336	991	74.2
AGRICULTURAL MARKETING SERVICE	1,097	867	79.0	1,463	1,082	74.0	-	-	-
AGRICULTURAL RESEARCH SERVICE	344,179	212,082	61.6	359,926	219,675	61.0	393,822	221,597	56.3
COOPERATIVE STATE RESEARCH SERVICE	7,137	7,137	100.0	7,766	7,766	100.0	7,206	7,206	100.0
ECONOMIC RESEARCH SERVICE	37,496	26	.1	38,989	28	.1	40,213	28	.1
FOREST SERVICE	111,895	78,383	70.1	99,640	62,720	62.9	91,639	50,318	54.9
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	3,300	2,200	66.7	3,100	2,300	74.2
OFF OF INTERNAT'L COOPERATION & DEV	836	594	71.1	906	644	71.1	940	668	71.1
OFFICE OF TRANSPORTATION	855	618	72.3	958	610	63.7	938	571	60.9
STATISTICAL REPORTING SERVICE	6,652	5,004	75.2	6,794	5,123	75.4	7,794	5,817	74.6
DEPARTMENT OF COMMERCE, TOTAL	687,568	225,851	32.8	594,008	223,240	37.6	354,476	148,970	42.0
BUREAU OF THE CENSUS	3,750	2,848	75.9	3,743	2,790	74.5	3,912	2,917	74.6
ECONOMIC DEVELOPMENT ADMINISTRATION	2,592	2,197	84.8	2,002	1,657	82.8	-	-	-
ENERGY RESEARCH & TECHNOLOGY ADMIN 1/	450,813	105,666	23.4	367,899	92,602	25.2	148,397	39,750	26.8
NATIONAL BUREAU OF STANDARDS	77,610	56,324	72.6	83,716	53,499	63.9	75,519	52,186	69.1
NAT'L OCEANIC & ATMOSPHERIC ADMIN	140,762	49,903	35.5	124,718	63,911	51.2	117,073	47,050	40.2
NAT'L TELECOMM & INFORMATION ADMIN	10,934	7,982	73.0	11,286	8,238	73.0	8,881	6,484	73.0
OFFICE OF THE SECRETARY		-	-	10	10	100.0	-	-	-
PATENT AND TRADEMARK OFFICE	1,10	931	84.1	634	533	84.1	694	583	84.0
DEPARTMENT OF DEFENSE, TOTAL	4,280,707	1,975,310	46.1	5,285,532	2,033,579	38.5	5,977,731	2,461,773	41.2
DEPARTMENT OF THE ARMY	1,202,030	638,061	53.1	1,411,764	668,572	47.4	1,597,627	755,487	47.3
DEPARTMENT OF THE NAVY	1,473,465	685,362	46.5	1,507,868	699,898	46.4	1,660,946	772,470	46.5
DEPARTMENT OF THE AIR FORCE	1,238,806	478,558	38.6	1,808,145	502,146	27.8	1,900,464	540,731	28.5
DEFENSE AGENCIES	328,645	172,279	52.4	512,979	161,713	31.5	766,402	391,710	51.1
DIRECTOR OF TEST & EVALUATION, DEFENSE	37,761	1,050	2.8	44,776	1,250	2.8	52,292	1,375	2.6
DEPT OF HLTH & HUMAN SERVICES, TOTAL	872,268	477,124	54.7	894,775	491,815	55.0	934,912	511,043	54.7
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	80,242	41,073	51.2	107,029	56,372	52.7	124,211	60,842	49.0
CENTERS FOR DISEASE CONTROL	52,777	44,860	85.0	50,553	42,970	85.0	53,982	45,884	85.0
FOOD & DRUG ADMINISTRATION	57,857	37,607	65.0	58,800	38,220	65.0	60,000	39,000	65.0
HEALTH CARE FINANCING ADMIN	3,185	399	12.5	2,433	292	12.0	2,474	312	12.6
HEALTH RESOURCES ADMINISTRATION	88	88	100.0	88	88	100.0	-	-	-
HEALTH SERVICES ADMINISTRATION	8,796	7,654	87.0	1,465	1,267	86.5	1,300	1,131	87.0
HUMAN DEVELOPMENT SERVICES	5,23	3,189	60.9	4,889	2,846	58.2	4,113	3,307	80.4
NATIONAL INSTITUTES OF HEALTH	638,5	324,049	50.7	651,607	334,139	51.3	670,962	344,738	51.4
OFFICE OF ASST'T SECY FOR HEALTH	12,440	7,431	59.7	5,349	4,200	78.5	4,673	3,581	76.6
OFFICE OF THE SECRETARY	1,920	501	26.1	1,324	344	26.0	1,457	608	41.7
SOCIAL SECURITY ADMINISTRATION	11,206	10,273	91.7	11,238	11,077	98.6	11,740	11,640	99.1
DEPT OF HOUSING & URBAN DEVELOPMENT	21,454	10,619	49.5	10,957	5,340	48.7	10,119	4,997	49.4
DEPARTMENT OF THE INTERIOR, TOTAL	273,794	176,812	64.6	257,416	180,739	70.2	245,237	167,171	68.2
BONNEVILLE POWER ADMINISTRATION	4,461	2,688	60.3	4,876	2,551	52.3	5,516	3,509	63.6
BUREAU OF LAND MANAGEMENT	967	455	47.1	710	495	69.7	2,354	13	.6
BUREAU OF MINES	46,995	38,400	81.7	45,810	37,300	81.4	44,446	36,400	81.9
BUREAU OF RECLAMATION	8,359	5,095	61.0	5,626	3,997	71.0	7,376	5,165	70.0
GEOLOGICAL SURVEY	155,474	79,798	51.3	144,010	85,880	59.6	137,827	79,112	57.4
NATIONAL PARK SERVICE	7,160	6,463	90.3	7,790	7,130	91.5	7,503	6,773	90.3
OFFICE OF THE SECRETARY	615	586	95.3	54	54	100.0	50	50	100.0
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,563	470	30.1	300	270	90.0	470	423	90.0
OFFICE OF WATER RSCH & TECHNOLOGY	3,000	2,190	73.0	1,960	1,410	71.9	-	-	-
US FISH & WILDLIFE SERVICE	45,200	40,667	90.0	46,280	41,652	90.0	39,695	35,726	90.0
DEPARTMENT OF JUSTICE, TOTAL	3,653	2,503	68.5	3,895	2,731	70.1	2,736	2,126	77.7
DRUG ENFORCEMENT ADMINISTRATION	400	400	100.0	800	800	100.0	600	600	100.0
FEDERAL BUREAU OF INVESTIGATION	275	275	100.0	275	275	100.0	275	275	100.0
FEDERAL PRISON SYSTEM	907	907	100.0	1,007	1,007	100.0	1,007	1,007	100.0
IMMIGRATION & NATURALIZATION SVC	94	94	100.0	94	94	100.0	94	94	100.0
OFFICE OF THE ATTORNEY GENERAL	135	135	100.0	5	5	100.0	10	10	100.0
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,842	692	37.6	1,714	550	32.1	750	140	18.7
DEPARTMENT OF LABOR, TOTAL	35,307	5,086	14.4	16,064	5,080	31.6	3,674	2,968	80.8
BUREAU OF LABOR STATISTICS	251	226	90.0	291	262	90.0	315	284	90.2
EMPLOYMENT STANDARDS ADMINISTRATION	2,720	900	33.1	1,270	800	63.0	1,375	700	50.9
EMPLOYMENT & TRAINING ADMIN	30,100	2,081	6.9	12,508	2,023	16.2	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	1,053	696	66.1	606	606	100.0	626	626	100.0
OCCUPATIONAL SAFETY & HEALTH ADMIN	20	20	100.0	400	400	100.0	400	400	100.0
OFFICE OF THE SECRETARY	1,100	1,100	100.0	900	900	100.0	900	900	100.0
PENSION BENEFIT GUARANTEE CORPORATION	63	63	100.0	89	89	100.0	58	58	100.0
DEPARTMENT OF STATE, TOTAL	1,060	609	57.5	1,049	641	61.1	940	646	68.7
DEPARTMENTAL FUNDS	1,060	609	57.5	1,049	641	61.1	940	646	68.7

CONTINUED ON NEXT PAGE

TABLE C-108. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1981			ESTIMATES					
				1982			1983		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF TRANSPORTATION, TOTAL ..	122,355	61,669	50.4	97,615	53,389	54.7	[illegible]31	49,706	54.9
COAST GUARD	13,988	3,065	21.9	8,281	1,657	20.0	[illegible]50	1,530	20.0
FEDERAL AVIATION ADMINISTRATION	28,636	15,749	55.0	27,205	14,962	55.0	31,500	17,324	55.0
FEDERAL HIGHWAY ADMINISTRATION	11,827	8,500	71.9	11,527	8,500	73.7	11,966	8,500	71.0
FEDERAL RAILROAD ADMINISTRATION	12,982	6,928	53.4	12,723	7,523	59.1	7,134	3,995	56.0
MARITIME ADMINISTRATION	332	290	87.3	450	382	84.9	900	762	84.7
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	10,387	6,194	59.6	8,237	4,893	59.4	8,537	5,028	58.9
OFFICE OF THE SECRETARY	6,393	3,033	47.4	3,195	2,365	74.0	3,534	2,324	65.8
RESEARCH & SPECIAL PROGRAMS ADMIN ..	6,633	4,010	60.5	6,917	4,557	65.9	5,965	4,255	71.3
URBAN MASS TRANSPORTATION ADMIN	31,177	13,900	44.6	19,080	8,550	44.8	13,345	5,990	44.9
DEPARTMENT OF THE TREASURY, TOTAL	5,416	3,551	65.6	7,648	5,663	74.0	8,093	6,185	76.4
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	104	104	100.0	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,462	847	34.4	2,910	1,356	46.6	2,005	860	42.9
INTERNAL REVENUE SERVICE	2,734	2,556	93.5	4,638	4,272	92.1	5,988	5,305	88.6
OFFICE OF PROTECTIVE RESEARCH	4	4	100.0	5	5	100.0	-	-	-
UNITED STATES CUSTOMS SERVICE	112	40	35.7	95	30	31.6	100	20	20.0
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,211	1,224	55.4	1,884	1,099	58.3	1,925	1,175	61.0
APPALACHIAN REGIONAL COMMISSION	85	67	78.8	100	70	70.0	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,540	1,540	100.0	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	368	272	73.9	163	121	74.2	357	264	73.9
ENVIRONMENTAL PROTECTION AGENCY	152,008	61,516	40.5%	140,189	54,001	38.5%	109,723	42,570	38.8%
FEDERAL COMMUNICATIONS COMMISSION	1,142	1,142	100.0	908	908	100.0	604	604	100.0
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	4,387	2,062	47.0	2,664	1,252	47.0	4,519	2,124	47.0
FEDERAL HOME LOAN BANK BOARD	949	658	69.3	1,028	644	62.6	1,095	691	63.1
FEDERAL TRADE COMMISSION	1,100	825	75.0	1,159	869	75.0	1,300	975	75.0
FOUNDATION FOR EDUCATION ASSISTANCE 2/	17,511	13,409	76.6	15,558	12,880	82.8	15,283	12,636	82.7
GENERAL SERVICES ADMINISTRATION	459	344	74.9	350	263	75.1	225	169	75.1
INTERNATIONAL COMMUNICATION AGENCY ...	228	165	72.4	140	100	71.4	152	103	67.8
INTERNAT'L DEV COOPERATION AGENCY	7,245	6,425	88.7	7,434	6,610	88.9	5,670	4,070	71.8
AGENCY FOR INTERNAT'L DEVELOPMENT ..	7,245	6,425	88.7	7,434	6,610	88.9	5,670	4,070	71.8
INTERNATIONAL TRADE COMMISSION	3,397	2,650	78.0	3,639	2,802	77.0	3,994	3,075	77.0
LIBRARY OF CONGRESS	4,600	3,110	67.6	4,900	3,405	69.5	4,900	3,405	69.5
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,346,811	792,117	58.8	1,395,735	779,910	55.9	1,421,571	821,465	57.8
NATIONAL SCIENCE FOUNDATION	106,472	44,245	41.6	113,378	45,136	39.8	126,380	44,608	35.3
NUCLEAR REGULATORY COMMISSION	25,114	12,814	51.0	23,567	13,560	57.5	22,650	13,000	57.4
OFFICE OF PERSONNEL MANAGEMENT	5,348	5,348	100.0	5,017	5,017	100.0	4,482	4,482	100.0
SMITHSONIAN INSTITUTION	41,159	28,811	70.0	44,353	31,047	70.0	48,931	34,252	70.0
TENNESSEE VALLEY AUTHORITY	49,212	39,370	80.0	60,498	48,398	80.0	74,200	59,360	80.0
US ARMS CONTROL & DISARMAMENT AGENCY .	160	60	37.5	30	20	66.7	95	50	52.6
VETERANS ADMINISTRATION	142,303	95,029	66.8	132,778	80,682	60.8	140,763	95,441	67.8

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-109. FEDERAL OBLIGATIONS FOR TOTAL BASIC RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1981			ESTIMATES					
				1982			1983		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	1,301,827	719,349	55.3%	1,396,174	748,822	53.6%	1,541,576	794,826	51.6%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	202,175	127,850	63.2	211,976	130,316	61.5	232,745	130,678	56.1
AGRICULTURAL RESEARCH SERVICE	163,337	100,638	61.6	171,848	104,887	61.0	193,246	108,879	56.3
COOPERATIVE STATE RESEARCH SERVICE	2,943	2,943	100.0	3,175	3,175	100.0	3,079	3,079	100.0
ECONOMIC RESEARCH SERVICE	3,416	2	.1	3,564	3	.1	3,591	3	.1
FOREST SERVICE	31,649	23,672	74.8	32,473	21,638	66.6	31,909	18,115	56.8
OFF OF INTERNAT'L COOPERATION & DEV	368	261	70.9	399	284	71.2	414	294	71.0
OFFICE OF TRANSPORTATION	462	334	72.3	517	329	63.6	506	308	60.9
DEPARTMENT OF COMMERCE, TOTAL	20,134	12,788	63.5	23,392	12,914	55.2	30,138	15,402	51.1
BUREAU OF THE CENSUS	273	226	82.8	251	194	77.3	259	200	77.2
ECONOMIC DEVELOPMENT ADMINISTRATION	2	1	50.0	2	1	50.0	-	-	-
ENERGY RESEARCH & TECHNOLOGY ADMIN 1/	5,591	2,104	37.6	7,737	2,900	37.5	13,410	4,270	31.8
NATIONAL BUREAU OF STANDARDS	14,268	10,457	73.3	15,402	9,819	63.8	16,469	10,932	66.4
DEPARTMENT OF DEFENSE, TOTAL	226,036	132,247	58.5	242,593	134,616	55.5	295,361	160,683	54.4
DEPARTMENT OF THE ARMY	89,951	58,363	64.9	96,421	56,471	58.6	103,045	62,394	60.6
DEPARTMENT OF THE NAVY	92,047	41,421	45.0	96,778	43,550	45.0	127,003	57,151	45.0
DEPARTMENT OF THE AIR FORCE	33,709	25,600	75.9	37,621	27,000	71.8	43,998	26,399	60.0
DEFENSE AGENCIES	10,329	6,863	66.4	11,773	7,595	64.5	21,315	14,739	69.1
DEPT OF HLTH & HUMAN SERVICES, TOTAL	392,956	196,742	50.1	410,906	207,144	50.4	429,403	213,785	49.8
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	49,365	25,988	52.6	62,819	32,370	51.5	71,478	34,133	47.8
HEALTH SERVICES ADMINISTRATION	3,800	3,306	87.0	700	609	87.0	700	609	87.0
HUMAN DEVELOPMENT SERVICES	46	34	73.9	-	-	-	46	46	100.0
NATIONAL INSTITUTES OF HEALTH	335,181	164,755	49.2	345,620	172,810	50.0	355,585	177,792	50.0
OFFICE OF ASST'T SECY FOR HEALTH	4,534	2,644	58.3	1,747	1,345	77.0	1,579	1,198	75.9
OFFICE OF THE SECRETARY	30	15	50.0	20	10	50.0	15	7	46.7
DEPARTMENT OF THE INTERIOR, TOTAL	69,190	42,618	61.6	66,602	44,475	66.8	62,805	40,618	64.7
BONNEVILLE POWER ADMINISTRATION	1	1	100.0	1	1	100.0	1	1	100.0
BUREAU OF MINES	13,600	11,600	85.3	12,900	11,000	85.3	12,500	10,600	84.8
BUREAU OF RECLAMATION	66	45	68.2	206	140	68.0	160	110	68.8
GEOLOGICAL SURVEY	50,240	26,376	52.5	49,313	29,637	60.1	46,708	26,810	57.4
OFFICE OF THE SECRETARY	615	586	95.3	54	54	100.0	50	50	100.0
OFFICE OF WATER RSCH & TECHNOLOGY	1,050	760	72.4	480	360	75.0	-	-	-
US FISH & WILDLIFE SERVICE	3,618	3,250	89.8	3,648	3,283	90.0	3,386	3,047	90.0
DEPARTMENT OF JUSTICE, TOTAL	353	111	31.4	233	78	33.5	200	20	10.0
OFF OF JUSTICE ASSIST, RSCH, & STAT	353	111	31.4	233	78	33.5	200	20	10.0
DEPARTMENT OF LABOR, TOTAL	1,750	231	13.2	2,300	415	18.0	-	-	-
EMPLOYMENT & TRAINING ADMIN	1,750	231	13.2	2,300	415	18.0	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	610	196	32.1	250	142	56.8	200	168	84.0
COAST GUARD	260	52	20.0	-	-	-	-	-	-
MARITIME ADMINISTRATION	50	44	88.0	50	42	84.0	200	168	84.0
RESEARCH & SPECIAL PROGRAMS ADMIN	300	100	33.3	200	100	50.0	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,581	1,531	96.8	1,672	1,546	92.5	2,013	1,777	88.3
INTERNAL REVENUE SERVICE	1,581	1,531	96.8	1,672	1,546	92.5	2,013	1,777	88.3
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	10	7	70.0	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	5,560	3,981	71.6	6,806	4,832	71.0	4,871	3,483	71.5
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,267	595	47.0	690	324	47.0	-	-	-
FEDERAL TRADE COMMISSION	935	701	75.0	985	739	75.0	1,105	829	75.0
FOUNDATION FOR EDUCATION ASSISTANCE 2/	3,072	2,654	86.4	2,716	2,445	90.0	2,716	2,445	90.0
INTERNATIONAL COMMUNICATION AGENCY	8	6	75.0	5	4	80.0	-	-	-
LIBRARY OF CONGRESS	200	84	42.0	100	97	97.0	100	97	97.0
NATIONAL AERONAUTICS & SPACE ADMIN	216,411	112,791	52.1	256,558	123,412	48.1	291,318	135,747	46.6
NATIONAL SCIENCE FOUNDATION	98,620	40,615	41.2	105,837	41,536	39.2	120,070	41,108	34.2
SMITHSONIAN INSTITUTION	41,159	28,811	70.0	44,353	31,047	70.0	48,931	34,252	70.0
TENNESSEE VALLEY AUTHORITY	4,800	3,840	80.0	5,200	4,160	80.0	5,700	4,560	80.0
VETERANS ADMINISTRATION	15,000	10,950	73.0	13,000	8,580	66.0	13,900	9,174	66.0

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-110. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1981			ESTIMATES					
				1982			1983		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	2,732,372	1,521,306	55.7%	2,756,146	1,529,804	55.5%	2,861,173	1,608,851	56.2%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	279,714	159,387	57.0	280,643	153,148	54.6	288,044	144,255	50.1
AGRICULTURAL COOPERATIVE SERVICE	1,213	762	62.8	908	594	65.4	1,336	991	74.2
AGRICULTURAL MARKETING SERVICE	877	693	79.0	1,177	871	74.0	-	-	-
AGRICULTURAL RESEARCH SERVICE	157,939	97,331	61.6	165,216	100,842	61.0	178,276	100,226	56.2
COOPERATIVE STATE RESEARCH SERVICE	4,194	4,194	100.0	4,591	4,591	100.0	4,127	4,127	100.0
ECONOMIC RESEARCH SERVICE	34,080	24	.1	35,425	25	.1	36,622	25	.1
FOREST SERVICE	74,050	50,871	68.7	62,752	38,573	61.5	56,300	30,442	54.1
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	3,000	2,000	66.7	2,800	2,100	75.0
OFF OF INTERNAT'L COOPERATION & DEV	401	285	71.1	435	309	71.0	451	321	71.2
OFFICE OF TRANSPORTATION	308	223	72.4	345	220	63.8	338	206	60.9
STATISTICAL REPORTING SERVICE	6,652	5,004	75.2	6,794	5,123	75.4	7,794	5,817	74.6
DEPARTMENT OF COMMERCE, TOTAL	245,142	95,130	38.8	231,393	103,635	44.8	203,484	89,034	43.8
BUREAU OF THE CENSUS	2,578	2,282	88.5	2,506	1,838	73.3	2,579	1,892	73.4
ECONOMIC DEVELOPMENT ADMINISTRATION	200	140	70.0	400	280	70.0	-	-	-
ENERGY RESEARCH & TECHNOLOGY ADMIN 1/	71,212	15,977	22.4	68,014	13,696	20.1	56,622	14,755	26.1
NATIONAL BUREAU OF STANDARDS	48,656	35,476	72.9	52,472	33,418	63.7	50,845	36,262	71.3
NAT'L OCEANIC & ATMOSPHERIC ADMIN	112,639	34,059	30.2	97,900	47,027	48.0	85,555	30,370	35.5
NAT'L TELECOMM & INFORMATION ADMIN	9,857	7,196	73.0	10,091	7,366	73.0	7,883	5,755	73.0
OFFICE OF THE SECRETARY	-	-	-	10	10	100.0	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	800,980	497,718	62.1	874,873	511,963	58.5	964,894	583,631	60.5
DEPARTMENT OF THE ARMY	237,634	145,617	61.3	250,129	154,374	61.7	281,426	169,556	60.2
DEPARTMENT OF THE NAVY	282,934	138,638	49.0	291,536	118,353	40.6	323,514	158,522	49.0
DEPARTMENT OF THE AIR FORCE	154,648	147,406	95.3	142,199	133,871	94.1	170,513	160,282	94.0
DEFENSE AGENCIES	125,764	66,057	52.5	191,009	105,365	55.2	189,441	95,271	50.3
DEPT OF HLTH & HUMAN SERVICES, TOTAL	398,356	227,398	57.1	410,166	236,947	57.8	432,198	249,135	57.6
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	29,674	14,498	48.9	43,210	23,514	54.4	51,598	26,155	50.7
CENTERS FOR DISEASE CONTROL	52,777	44,860	85.0	50,553	42,970	85.0	53,982	45,884	85.0
FOOD & DRUG ADMINISTRATION	57,857	37,607	65.0	58,800	38,220	65.0	60,000	39,000	65.0
HEALTH CARE FINANCING ADMIN	3,185	399	12.5	2,433	292	12.0	2,474	312	12.6
HEALTH RESOURCES ADMINISTRATION	88	88	100.0	88	88	100.0	-	-	-
HEALTH SERVICES ADMINISTRATION	2,178	1,882	86.4	633	547	86.4	600	522	87.0
HUMAN DEVELOPMENT SERVICES	2,484	1,781	71.7	2,373	1,722	72.6	1,879	1,603	85.3
NATIONAL INSTITUTES OF HEALTH	230,854	111,835	48.4	236,796	116,030	49.0	246,095	121,587	49.4
OFFICE OF ASST'T SECY FOR HEALTH	6,163	3,689	59.9	2,738	2,153	78.6	2,388	1,831	76.7
OFFICE OF THE SECRETARY	1,890	486	25.7	1,304	334	25.6	1,442	601	41.7
SOCIAL SECURITY ADMINISTRATION	11,206	10,273	91.7	11,238	11,077	98.6	11,740	11,640	99.1
DEPT OF HOUSING & URBAN DEVELOPMENT	15,485	8,671	56.0	6,917	3,940	57.0	6,611	3,769	57.0
DEPARTMENT OF THE INTERIOR, TOTAL	177,808	111,412	62.7	166,146	115,078	69.3	158,195	105,720	66.8
BONNEVILLE POWER ADMINISTRATION	1,806	313	17.3	2,757	644	23.4	2,277	594	26.1
BUREAU OF LAND MANAGEMENT	770	400	51.9	480	415	86.5	2,024	10	.5
BUREAU OF MINES	24,400	19,600	80.3	25,300	20,200	79.8	24,800	19,900	80.2
BUREAU OF RECLAMATION	7,368	4,400	59.7	5,005	3,500	69.9	6,438	4,510	70.1
GEOLOGICAL SURVEY	105,224	53,416	50.8	94,687	56,237	59.4	91,119	52,302	57.4
NATIONAL PARK SERVICE	7,160	6,463	90.3	7,790	7,130	91.5	7,503	6,773	90.3
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,563	470	30.1	300	270	90.0	470	423	90.0
OFFICE OF WATER RSCH & TECHNOLOGY	1,120	800	71.4	680	450	66.2	-	-	-
US FISH & WILDLIFE SERVICE	28,397	25,550	90.0	29,147	26,232	90.0	23,564	21,208	90.0
DEPARTMENT OF JUSTICE, TOTAL	1,118	855	76.5	1,223	854	69.8	1,063	813	76.5
DRUG ENFORCEMENT ADMINISTRATION	100	100	100.0	200	200	100.0	200	200	100.0
FEDERAL PRISON SYSTEM	457	457	100.0	457	457	100.0	457	457	100.0
IMMIGRATION & NATURALIZATION SVC	47	47	100.0	47	47	100.0	47	47	100.0
OFFICE OF THE ATTORNEY GENERAL	100	100	100.0	4	4	100.0	9	9	100.0
OFF OF JUSTICE ASSIST, RSCH, & STAT	414	151	36.5	515	146	28.3	350	100	28.6
DEPARTMENT OF LABOR, TOTAL	33,160	4,458	13.4	13,618	4,519	33.2	3,616	2,910	80.5
BUREAU OF LABOR STATISTICS	251	226	90.0	291	262	90.0	315	284	90.2
EMPLOYMENT STANDARDS ADMINISTRATION	2,720	900	33.1	1,270	800	63.0	1,375	700	50.9
EMPLOYMENT & TRAINING ADMIN	28,003	1,503	5.4	10,096	1,496	14.8	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	1,053	696	66.1	606	606	100.0	626	626	100.0
OCCUPATIONAL SAFETY & HEALTH ADMIN	20	20	100.0	400	400	100.0	400	400	100.0
OFFICE OF THE SECRETARY	1,100	1,100	100.0	900	900	100.0	900	900	100.0
PENSION BENEFIT GUARANTEE CORPORATION	13	13	100.0	55	55	100.0	-	-	-
DEPARTMENT OF STATE, TOTAL	1,015	603	59.4	1,049	641	61.1	940	646	68.7
DEPARTMENTAL FUNDS	1,015	603	59.4	1,049	641	61.1	940	646	68.7

CONTINUED ON NEXT PAGE

TABLE C-110. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1981			ESTIMATES					
				1982			1983		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF TRANSPORTATION, TOTAL ..	28,618	14,727	51.5	26,076	13,437	51.5	23,014	12.167	52.9
COAST GUARD	5,249	1,312	25.0	4,658	932	20.0	4,169	834	20.0
FEDERAL AVIATION ADMINISTRATION	1,804	992	55.0	1,714	942	55.0	1,985	1,091	55.0
FEDERAL HIGHWAY ADMINISTRATION	1,224	1,020	83.3	1,200	1,020	85.0	1,248	1,020	81.7
FEDERAL RAILROAD ADMINISTRATION	4,774	2,578	54.0	4,758	2,664	56.0	2,652	1,485	56.0
MARITIME ADMINISTRATION	200	175	87.5%	200	170	85.0%	500	424	84.8%
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	8,767	5,660	64.6	6,793	4,464	65.7	6,915	4,544	65.7
OFFICE OF THE SECRETARY	385	25	6.5	330	25	7.6	330	25	7.6
RESEARCH & SPECIAL PROGRAMS ADMIN ..	3,083	1,465	47.5	2,681	1,420	53.0	2,325	1,354	58.2
URBAN MASS TRANSPORTATION ADMIN	3,132	1,500	47.9	3,742	1,800	48.1	2,890	1,390	48.1
DEPARTMENT OF THE TREASURY, TOTAL	2,033	1,624	79.9	3,785	3,136	82.9	5,595	4,128	73.8
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	50	100.0	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	832	546	65.6	819	410	50.1	1,620	600	37.0
INTERNAL REVENUE SERVICE	1,141	1,018	89.2	2,966	2,726	91.9	3,975	3,528	88.8
UNITED STATES CUSTOMS SERVICE	10	10	100.0	-	-	-	-	-	-
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	2,211	1,224	55.4	1,884	1,099	58.3	1,925	1,175	61.0
APPALACHIAN REGIONAL COMMISSION	10	7	70.0	50	35	70.0	-	-	-
COMMUNITY SERVICES ADMINISTRATION	40	40	100.0	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	90	67	74.4	-	-	-	31	23	74.2
ENVIRONMENTAL PROTECTION AGENCY	101,876	40,954	40.2	94,489	36,567	38.7	70,200	27,617	39.3
FEDERAL COMMUNICATIONS COMMISSION	1,142	1,142	100.0	908	908	100.0	604	604	100.0
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,633	768	47.0	1,974	928	47.0	4,519	2,124	47.0
FEDERAL HOME LOAN BANK BOARD	949	658	69.3	1,028	644	62.6	1,095	691	63.1
FEDERAL TRADE COMMISSION	165	124	75.2	174	130	74.7	195	146	74.9
FOUNDATION FOR EDUCATION ASSISTANCE 2/	4,339	3,415	78.7%	3,956	3,366	85.1%	3,983	3,389	85.1%
GENERAL SERVICES ADMINISTRATION	239	179	74.9	70	53	75.7	225	169	75.1
INTERNATIONAL COMMUNICATION AGENCY ...	187	134	71.7	52	39	75.0	150	102	68.0
INTERNAT'L DEV COOPERATION AGENCY	5,172	4,625	89.4	5,194	4,570	88.0	4,300	3,150	73.3
AGENCY FOR INTERNAT'L DEVELOPMENT ..	5,172	4,625	89.4	5,194	4,570	88.0	4,300	3,150	73.3
INTERNATIONAL TRADE COMMISSION	3,397	2,650	78.0	3,639	2,802	77.0	3,994	3,075	77.0
LIBRARY OF CONGRESS	700	416	59.4	600	462	77.0	600	462	77.0
NATIONAL AERONAUTICS & SPACE ADMIN ...	475,577	248,017	52.2	478,552	242,468	50.7	520,261	260,672	50.1
NATIONAL SCIENCE FOUNDATION	7,432	3,600	48.4	7,541	3,600	47.7	6,310	3,500	55.5
NUCLEAR REGULATORY COMMISSION	25,114	12,814	51.0	23,567	13,560	57.5	22,650	13,000	57.4
OFFICE OF PERSONNEL MANAGEMENT	2,488	2,488	100.0	2,182	2,182	100.0	1,729	1,729	100.0
TENNESSEE VALLEY AUTHORITY	3,532	2,826	80.0	7,624	6,099	80.0	17,700	14,160	80.0
US ARMS CONTROL & DISARMAMENT AGENCY .	150	50	33.3	20	10	50.0	85	40	47.1
VETERANS ADMINISTRATION	112,500	73,125	65.0	106,753	62,984	59.0	112,963	76,815	68.0

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-111. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1981			ESTIMATES					
				1982			1983		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	4,694,552	2,117,155	45.1%	5,492,761	2,112,827	38.5%	5,761,507	2,385,923	41.4%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	29,471	18,236	61.9	28,031	16,978	60.6	26,199	14,563	55.6
AGRICULTURAL MARKETING SERVICE	220	174	79.1	286	211	73.8	-	-	-
AGRICULTURAL RESEARCH SERVICE	22,903	14,113	61.6	22,862	13,946	61.0	22,300	12,492	56.0
FOREST SERVICE	6,196	3,840	62.0	4,415	2,509	56.8	3,430	1,761	51.3
HUMAN NUTRITION INFORMATION SERVICE	-	-	-	300	200	66.7	300	200	66.7
OFF OF INTERNAT'L COOPERATION & DEV	67	48	71.6	72	51	70.8	75	53	70.7
OFFICE OF TRANSPORTATION	85	61	71.8	96	61	63.5	94	57	60.6
DEPARTMENT OF COMMERCE, TOTAL	422,292	117,933	27.9	339,223	106,691	31.5	120,854	44,534	36.8
BUREAU OF THE CENSUS	899	340	37.8	986	758	76.9	1,074	825	76.8
ECONOMIC DEVELOPMENT ADMINISTRATION	2,390	2,056	86.0	1,600	1,376	86.0	-	-	-
ENERGY RESEARCH & TECHNOLOGY ADMIN 1/	374,010	87,585	23.4	292,148	76,006	26.0	78,365	20,725	26.4
NATIONAL BUREAU OF STANDARDS	14,686	10,391	70.8	15,842	10,262	64.8	8,205	4,992	60.8
NAT'L OCEANIC & ATMOSPHERIC ADMIN	28,123	15,844	56.3	26,818	16,884	63.0	31,518	16,680	52.9
NAT'L TELECOMM & INFORMATION ADMIN	1,077	786	73.0	1,195	872	73.0	998	729	73.0
PATENT AND TRADEMARK OFFICE	1,107	931	84.1	634	533	84.1	694	583	84.0
DEPARTMENT OF DEFENSE, TOTAL	3,253,691	1,345,345	41.3	4,168,066	1,387,000	33.3	4,717,476	1,717,459	36.4
DEPARTMENT OF THE ARMY	874,445	434,081	49.6	1,065,214	457,727	43.0	1,213,156	523,537	43.2
DEPARTMENT OF THE NAVY	1,098,484	505,303	46.0	1,119,554	537,995	48.1	1,210,429	556,797	46.0
DEPARTMENT OF THE AIR FORCE	1,050,449	305,552	29.1	1,628,325	341,275	21.0	1,685,953	354,050	21.0
DEFENSE AGENCIES	192,552	99,359	51.6	310,197	48,753	15.7	555,646	281,700	50.7
DIRECTOR OF TEST & EVALUATION, DEFENSE	37,761	1,050	2.8	44,776	1,250	2.8	52,292	1,375	2.6
DEPT OF HLTH & HUMAN SERVICES, TOTAL	80,956	52,984	65.4	73,703	47,724	64.8	73,311	48,123	65.6
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,203	587	48.8	1,000	488	48.8	1,135	554	48.8
HEALTH SERVICES ADMINISTRATION	2,818	2,466	87.5	132	111	84.1	-	-	-
HUMAN DEVELOPMENT SERVICES	2,704	1,374	50.8	2,516	1,124	44.7	2,188	1,658	75.8
NATIONAL INSTITUTES OF HEALTH	72,488	47,459	65.5	69,191	45,299	65.5	69,282	45,359	65.5
OFFICE OF ASST'T SECY FOR HEALTH	1,743	1,098	63.0	864	702	81.3	706	552	78.2
DEPT OF HOUSING & URBAN DEVELOPMENT	5,969	1,948	32.6	4,040	1,400	34.7	3,508	1,228	35.0
DEPARTMENT OF THE INTERIOR, TOTAL	26,796	22,782	85.0	24,668	21,186	85.9	24,237	20,833	86.0
BONNEVILLE POWER ADMINISTRATION	2,654	2,374	89.4	2,118	1,906	90.0	3,238	2,914	90.0
BUREAU OF LAND MANAGEMENT	197	55	27.9	230	80	34.8	330	3	.9
BUREAU OF MINES	8,995	7,200	80.0	7,610	6,100	80.2	7,146	5,900	82.6
BUREAU OF RECLAMATION	925	650	70.3	415	357	86.0	778	545	70.1
GEOLOGICAL SURVEY	10	6	60.0	10	6	60.0	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	830	630	75.9	800	600	75.0	-	-	-
US FISH & WILDLIFE SERVICE	13,185	11,867	90.0	13,485	12,137	90.0	12,745	11,471	90.0
DEPARTMENT OF JUSTICE, TOTAL	2,182	1,537	70.4	2,439	1,799	73.8	1,473	1,293	87.8
DRUG ENFORCEMENT ADMINISTRATION	300	300	100.0	600	600	100.0	400	400	100.0
FEDERAL BUREAU OF INVESTIGATION	275	275	100.0	275	275	100.0	275	275	100.0
FEDERAL PRISON SYSTEM	450	450	100.0	550	550	100.0	550	550	100.0
IMMIGRATION & NATURALIZATION SVC	47	47	100.0	47	47	100.0	47	47	100.0
OFFICE OF THE ATTORNEY GENERAL	35	35	100.0	1	1	100.0	1	1	100.0
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,075	430	40.0	966	326	33.7	200	20	10.0
DEPARTMENT OF LABOR, TOTAL	397	397	100.0	146	146	100.0	58	58	100.0
EMPLOYMENT & TRAINING ADMIN	347	347	100.0	112	112	100.0	-	-	-
PENSION BENEFIT GUARANTEE CORPORATION	50	50	100.0	34	34	100.0	58	58	100.0
DEPARTMENT OF STATE, TOTAL	45	6	13.3	-	-	-	-	-	-
DEPARTMENTAL FUNDS	45	6	13.3	-	-	-	-	-	-

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TABLE C-111. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1981, 1982, AND 1983

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1981			ESTIMATES					
				1982			1983		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF TRANSPORTATION, TOTAL ..	93,127	46,746	50.2	71,289	39,810	55.8	67,317	37,371	55.5
COAST GUARD	8,479	1,701	20.1	3,623	725	20.0	3,481	696	20.0
FEDERAL AVIATION ADMINISTRATION	26,832	14,757	55.0	25,491	14,020	55.0	29,515	16,233	55.0
FEDERAL HIGHWAY ADMINISTRATION	10,603	7,480	70.5	10,327	7,480	72.4	10,718	7,480	69.8
FEDERAL RAILROAD ADMINISTRATION	8,208	4,350	53.0	7,965	4,859	61.0	4,482	2,510	56.0
MARITIME ADMINISTRATION	82	71	86.6	200	170	85.0	200	170	85.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN .	1,620	534	33.0	1,444	429	29.7	1,622	482	29.7
OFFICE OF THE SECRETARY	6,008	3,008	50.1	2,865	2,340	81.7	3,204	2,299	71.8
RESEARCH & SPECIAL PROGRAMS ADMIN ..	3,250	2,445	75.2	4,036	3,037	75.2	3,640	2,901	79.7
URBAN MASS TRANSPORTATION ADMIN	28,045	12,400	44.2	15,338	6,750	44.0	10,455	4,600	44.0
DEPARTMENT OF THE TREASURY, TOTAL	1,802	396	22.0	2,191	981	44.8	485	280	57.7
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	54	54	100.0	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,630	301	18.5	2,091	946	45.2	385	260	67.5
INTERNAL REVENUE SERVICE	12	7	58.3	-	-	-	-	-	-
OFFICE OF PROTECTIVE RESEARCH	4	4	100.0	5	5	100.0	-	-	-
UNITED STATES CUSTOMS SERVICE	102	30	29.4	95	30	31.6	100	20	20.0
OTHER AGENCIES									
APPALACHIAN REGIONAL COMMISSION	75	60	80.0%	50	35	70.0%	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,500	1,500	100.0	-	-	-	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	268	198	73.9	163	121	74.2	326	241	73.9%
ENVIRONMENTAL PROTECTION AGENCY	44,572	16,581	37.2	38,894	12,602	32.4	34,652	11,470	33.1
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,487	699	47.0	-	-	-	-	-	-
FOUNDATION FOR EDUCATION ASSISTANCE 2/	10,100	7,340	72.7%	8,886	7,069	79.6%	8,584	6,802	79.2%
GENERAL SERVICES ADMINISTRATION	220	165	75.0	280	210	75.0	-	-	-
INTERNATIONAL COMMUNICATION AGENCY ...	33	25	75.8	83	57	68.7	2	1	50.0
INTERNAT'L DEV COOPERATION AGENCY	2,073	1,800	86.8	2,240	2,040	91.1	1,370	920	67.2
AGENCY FOR INTERNAT'L DEVELOPMENT ..	2,073	1,800	86.8	2,240	2,040	91.1	1,370	920	67.2
LIBRARY OF CONGRESS	3,700	2,610	70.5	4,200	2,846	67.8	4,200	2,846	67.8
NATIONAL AERONAUTICS & SPACE ADMIN ...	654,823	431,309	65.9	660,625	414,030	62.7	609,992	425,046	69.7
NATIONAL SCIENCE FOUNDATION	420	30	7.1	-	-	-	-	-	-
OFFICE OF PERSONNEL MANAGEMENT	2,860	2,860	100.0	2,835	2,835	100.0	2,753	2,753	100.0
TENNESSEE VALLEY AUTHORITY	40,880	32,704	80.0	47,674	38,139	80.0	50,800	40,640	80.0
US ARMS CONTROL & DISARMAMENT AGENCY .	10	10	100.0	10	10	100.0	10	10	100.0
VETERANS ADMINISTRATION	14,803	10,954	74.0	13,025	9,118	70.0	13,900	9,452	68.0

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-112. FEDERAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL AGENCIES	17,488.8	18,297.1	19,550.8	21,020.9	23,379.1	25,678.9	27,842.2	31,881.7	35,785.9	39,316.8	42,381.5
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	357.1	381.5	425.6	468.8	537.8	572.4	630.5	687.6	N/A	N/A	N/A
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	30.5	32.4	35.6	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	15.2	18.1	22.2	23.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.1	1.2	1.2	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.6	1.2	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A	N/A	N/A
FOREST SERVICE	58.3	65.6	72.5	90.3	92.5	86.7	105.7	100.6	N/A	N/A	N/A
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	414.7	453.3	487.8	545.8	N/A	N/A	N/A
AGRICULTURAL RESEARCH	199.3	210.5	232.8	247.4	294.6	318.4	331.2	371.6	N/A	N/A	N/A
COOPERATIVE RESEARCH	82.1	85.2	95.6	104.2	120.2	134.9	156.6	174.2	N/A	N/A	N/A
TECHNICAL INFO SYSTEMS	.3	.2	.1	*	-	-	-	-	N/A	N/A	N/A
OTHER AGRICULTURE	-	-	-	-	-	-	1.4	8.5	N/A	N/A	N/A
DEPARTMENT OF AGRICULTURE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	782.5	845.8	859.8
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.3	1.8	1.4
AGRICULTURAL MARKETING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.2	1.5	-
AGRICULTURAL RESEARCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	425.9	441.9	467.0
COOPERATIVE STATE RSCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	199.0	226.6	228.6
ECONOMIC RESEARCH SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	38.0	39.1	40.3
FOREST SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	101.8	114.9	100.2
STATISTICAL REPORTING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.5	7.0	8.0
OTHER AGRICULTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.7	13.1	14.3
DEPARTMENT OF COMMERCE, TOTAL	186.2	188.2	224.6	233.3	238.2	272.7	307.1	360.6	6,472.7	6,526.8	4,997.0
ENERGY RSCH & TECH ADMIN 1/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6,125.9	6,221.6	4,740.1
NATIONAL BUREAU OF STANDARDS	36.8	42.5	47.2	49.1	53.1	59.0	64.8	77.1	84.4	93.5	85.8
NAT'L OCEANIC & ATMOS ADMIN	114.4	109.5	127.7	134.5	132.6	164.7	190.1	210.6	209.0	183.5	150.8
OTHER COMMERCE	34.9	36.3	49.7	49.8	52.5	48.9	52.2	72.9	53.5	28.1	20.3
DEPARTMENT OF DEFENSE, TOTAL	8,597.6	8,979.7	9,363.5	9,445.5	10,308.0	10,935.4	11,733.1	13,706.1	15,993.0	19,079.0	23,042.5
DEPARTMENT OF THE ARMY	2,042.4	2,308.6	2,083.0	1,969.6	2,195.0	2,464.3	2,536.2	2,852.9	3,123.7	3,550.3	4,233.8
DEPARTMENT OF THE NAVY	2,498.9	2,715.8	3,126.3	3,320.1	3,582.6	3,919.4	3,926.4	4,507.9	4,916.9	5,570.9	6,107.5
DEPARTMENT OF THE AIR FORCE	3,588.5	3,442.3	3,567.6	3,625.2	3,902.2	3,969.9	4,428.0	5,323.6	6,756.6	8,405.8	10,684.0
DEFENSE AGENCIES	461.3	485.2	556.9	507.5	610.5	555.1	814.2	981.4	1,160.0	1,508.6	1,965.0
DEFENSE CIVIL PREPAREDNESS AGENCY	3.0	2.3	3.0	2.2	1.2	2.9	N/A	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	3.4	25.5	26.8	20.9	16.5	23.9	28.3	40.4	35.7	43.4	52.2
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	136.5	120.9	N/A	N/A	N/A
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	3,593.1	4,413.0	4,956.8	5,660.2	N/A	N/A	N/A
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,878.4	1,960.6	2,168.2	2,615.0	2,622.2	3,070.2	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	112.6	127.3	114.1	145.1	167.2	179.9	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	35.8	96.9	82.8	69.8	59.7	74.8	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,373.7	1,435.4	1,684.4	2,118.4	2,105.0	2,507.1	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	102.2	66.3	53.1	56.8	30.3	25.8	N/A	N/A	N/A	N/A	N/A
OTHER HEW	254.1	234.6	233.8	225.0	260.1	282.6	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	3,172.7	3,554.1	3,997.5	3,992.1	4,087.7
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	184.7	218.1	251.1	263.1	280.6
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	2,713.4	3,029.3	3,392.2	3,423.9	3,516.3
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	274.5	306.8	354.3	305.0	290.8
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	47.8	58.4	58.7	60.3	69.0	59.3	74.3	65.8	54.1	39.2	36.5
DEPT OF THE INTERIOR, TOTAL	254.1	194.8	266.0	319.7	304.0	339.9	404.3	431.5	436.9	412.1	374.4
BUREAU OF MINES	68.6	66.7	82.7	113.7	103.7	104.2	121.4	130.8	109.0	98.0	83.9
GEOLOGICAL SURVEY	62.7	68.7	95.2	115.7	112.2	128.7	144.2	145.2	168.2	158.7	149.1
OTHER INTERIOR	122.8	59.4	88.1	90.4	88.1	107.0	138.7	155.5	159.7	155.3	141.3
DEPARTMENT OF JUSTICE, TOTAL	22.2	40.5	43.8	39.9	33.7	33.5	45.9	45.3	26.1	30.2	29.3
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	19.9	34.5	39.2	35.2	27.6	27.1	35.5	35.1	19.2	21.5	21.2
OTHER JUSTICE	2.3	6.0	4.6	4.7	6.2	6.3	10.4	10.2	6.9	8.7	8.2
DEPARTMENT OF LABOR, TOTAL	18.3	22.5	25.4	27.8	28.1	97.6	109.2	137.7	61.6	36.1	9.7
DEPARTMENT OF STATE, TOTAL	20.8	24.8	28.6	27.0	44.1	57.5	3.2	2.2	1.8	2.0	1.8
AGENCY FOR INTERNAT'L DEVMNT	19.3	23.2	27.4	25.4	41.8	54.6	N/A	N/A	N/A	N/A	N/A
OTHER STATE	1.5	1.6	1.2	1.6	2.3	2.8	3.2	2.2	1.8	2.0	1.8

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TABLE C-112. FEDERAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
DEPT OF TRANSPORTATION, TOTAL ...	337.3	363.7	339.2	335.7	363.5	377.3	372.4	391.0	432.1	346.2	329.7
FEDERAL AVIATION ADMIN	88.6	115.8	113.7	114.6	102.8	100.2	111.4	109.7	125.9	103.3	12[illegible].7
FEDERAL HIGHWAY ADMIN	23.5	33.5	26.8	42.9	53.0	52.9	48.9	53.4	59.1	53.2	50.7
FEDERAL RAILROAD ADMIN	41.4	38.3	51.1	48.5	57.3	62.4	58.0	63.5	55.0	30.0	19.5
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	47.6	44.4	36.2	33.8	49.5	68.5	53.6	60.3	60.8	64.2	57.2
URBAN MASS TRANS ADMIN	72.2	57.8	60.9	48.2	52.1	52.5	50.5	58.9	61.9	48.9	29.3
OTHER TRANSPORTATION	63.9	73.9	50.6	47.7	48.8	40.8	49.9	45.2	69.4	46.6	43.3
DEPT OF THE TREASURY, TOTAL	1.0	1.1	1.7	3.8	5.0	9.9	9.6	10.9	10.8	12.5	13.4
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,624.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	1,825.0	2,246.6	2,553.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	147.7	172.2	218.6	265.6	283.0	312.5	388.9	384.7	344.3	334.7	273.9
FOUNDATION FOR EDUCATION ASST 2/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	111.8	105.6	104.1
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	80.3	114.3	166.1	168.7	195.3
NAT'L AERONAUTICS & SPACE ADMIN .	3,315.2	3,256.2	3,266.5	3,669.0	3,945.3	3,983.1	4,196.5	4,851.6	5,425.6	5,831.0	6,582.0
NATIONAL SCIENCE FOUNDATION	470.9	584.7	600.4	669.1	674.7	738.6	804.6	848.2	905.0	1,027.8	923.0
NUCLEAR REGULATORY COMMISSION ...	N/A	46.1	58.5	76.9	107.8	131.7	145.4	182.8	216.0	213.8	206.5
OFFICE OF ECONOMIC OPPORTUNITY ..	76.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	82.8	85.7	97.0	109.5	112.8	123.9	123.1	138.6	144.3	137.8	147.0
ALL OTHER AGENCIES	50.2	111.3	117.9	100.0	109.0	150.5	148.1	187.5	203.7	175.4	168.1

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE

2/ THE 1983 BUDGET PROPOSED THAT [illegible]EPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-113. FEDERAL OUTLAYS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL AGENCIES	16,850.4	17,592.5	18,721.2	20,220.2	22,578.9	24,571.1	26,639.4	30,400.1	34,179.2	37,621.6	41,173.5
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	348.5	379.6	417.7	460.0	515.3	553.8	608.7	659.8	743.4	806.5	825.9
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	30.5	32.4	35.6	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	15.2	18.1	22.2	23.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.1	1.2	1.2	1.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.6	1.2	2.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A	N/A	N/A
FOREST SERVICE	54.7	63.3	68.6	86.9	89.0	84.6	102.2	97.0	N/A	N/A	N/A
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	395.7	436.8	469.5	521.7	N/A	N/A	N/A
AGRICULTURAL RESEARCH	194.7	207.1	228.8	242.0	275.6	301.9	312.9	347.5	N/A	N/A	N/A
COOPERATIVE RESEARCH	81.8	85.0	95.5	104.2	120.1	134.9	156.6	174.2	N/A	N/A	N/A
TECHNICAL INFO SYSTEMS	.3	.2	.1	*	-	-	-	-	N/A	N/A	N/A
OTHER AGRICULTURE	-	-	-	-	-	-	1.4	8.5	N/A	N/A	N/A
DEPARTMENT OF AGRICULTURE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	743.4	806.5	825.9
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.3	1.8	1.4
AGRICULTURAL MARKETING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.2	1.5	-
AGRICULTURAL RESEARCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	390.1	405.3	435.8
COOPERATIVE STATE RSCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	199.0	226.6	226.8
ECONOMIC RESEARCH SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	38.0	39.1	40.3
FOREST SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	98.6	112.2	99.2
STATISTICAL REPORTING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.5	7.0	8.0
OTHER AGRICULTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.7	13.1	14.3
DEPARTMENT OF COMMERCE, TOTAL	180.4	176.3	214.1	225.5	232.5	269.2	305.2	355.9	5,386.9	5,344.3	4,350.9
ENERGY RSCH & TECH ADMIN 1/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5,041.4	5,046.5	4,097.0
NATIONAL BUREAU OF STANDARDS	35.6	40.7	45.3	48.0	52.6	58.1	63.4	76.8	83.9	86.1	82.8
NAT'L OCEANIC & ATMOS ADMIN	110.9	101.6	119.8	129.4	131.2	162.5	190.1	206.7	208.1	183.5	150.8
OTHER COMMERCE	33.9	34.0	49.0	48.1	48.8	48.6	51.7	72.3	53.5	28.1	20.3
DEPARTMENT OF DEFENSE, TOTAL	8,440.6	8,814.9	9,210.6	9,301.3	10,182.4	10,622.8	11,497.3	13,501.4	15,754.5	18,830.8	22,722.3
DEPARTMENT OF THE ARMY	1,996.4	2,277.2	2,053.1	1,949.0	2,180.2	2,457.5	2,534.1	2,845.3	3,114.8	3,537.0	4,210.0
DEPARTMENT OF THE NAVY	2,466.4	2,668.3	3,076.5	3,260.8	3,519.0	3,870.3	3,873.5	4,417.0	4,824.7	5,475.2	5,991.9
DEPARTMENT OF THE AIR FORCE	3,533.1	3,374.1	3,513.1	3,568.1	3,862.2	3,719.8	4,263.1	5,220.6	6,626.6	8,275.2	10,510.0
DEFENSE AGENCIES	438.3	467.4	536.2	500.3	603.3	548.5	798.3	978.2	1,152.6	1,500.0	1,958.2
DEFENSE CIVIL PREPAREDNESS AGENCY	3.0	2.3	3.0	2.2	1.2	2.9	N/A	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	3.4	25.5	26.8	20.9	16.5	23.9	28.3	40.4	35.7	43.4	52.2
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	136.5	120.9	N/A	N/A	N/A
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	3,166.0	3,931.7	4,303.3	4,697.5	N/A	N/A	N/A
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,815.7	1,927.3	2,082.3	2,562.6	2,576.6	3,002.2	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	112.6	127.3	114.1	145.1	167.2	179.9	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	35.8	96.9	82.8	69.8	59.7	74.8	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,333.3	1,407.6	1,602.8	2,066.5	2,063.7	2,440.3	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	94.0	62.8	53.1	56.8	30.3	25.8	N/A	N/A	N/A	N/A	N/A
OTHER HEW	240.0	232.8	229.5	224.5	255.8	281.4	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	3,099.3	3,477.2	3,954.9	3,958.2	4,052.7
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	184.4	217.9	250.9	262.0	276.8
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	2,641.0	2,953.2	3,350.2	3,392.1	3,488.6
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	273.9	306.1	353.8	304.0	287.3
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	47.8	58.4	58.7	60.3	69.0	59.3	74.3	65.8	54.1	39.2	36.5
DEPT OF THE INTERIOR, TOTAL	237.4	192.8	263.6	319.0	299.5	332.3	395.3	422.7	432.8	410.1	372.8
BUREAU OF MINES	68.6	66.7	82.7	113.7	100.7	104.1	117.1	128.4	106.9	97.7	83.6
GEOLOGICAL SURVEY	62.1	68.3	95.2	115.7	112.2	128.7	144.2	145.2	168.2	158.7	149.1
OTHER INTERIOR	106.8	57.9	85.7	89.6	86.6	99.4	134.0	149.2	157.7	153.6	140.0
DEPARTMENT OF JUSTICE, TOTAL	22.2	40.5	43.8	39.9	33.7	33.5	45.9	45.3	26.1	30.2	29.3
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	19.9	34.5	39.2	35.2	27.6	27.1	35.5	35.1	19.2	21.5	21.2
OTHER JUSTICE	2.3	6.0	4.6	4.7	6.2	6.3	10.4	10.2	6.9	8.7	8.2
DEPARTMENT OF LABOR, TOTAL	18.3	22.5	25.4	27.8	28.1	97.6	109.2	137.7	61.6	36.1	9.7
DEPARTMENT OF STATE, TOTAL	20.2	24.5	28.4	25.9	40.1	57.4	3.2	2.2	1.8	2.0	1.8
AGENCY FOR INTERNAT'L DEVMNT	18.7	23.0	27.1	24.3	37.8	54.5	N/A	N/A	N/A	N/A	N/A
OTHER STATE	1.5	1.6	1.2	1.6	2.3	2.8	3.2	2.2	1.8	2.0	1.8

CONTINUED ON NEXT PAGE

TABLE C-113. FEDERAL OUTLAYS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
DEPT OF TRANSPORTATION, TOTAL ...	312.3	328.4	324.5	323.6	346.0	364.1	356.2	374.7	415.9	326.4	321.6
FEDERAL AVIATION ADMIN	88.1	115.2	110.9	112.7	99.8	99.2	101.9	104.2	119.8	99.0	123.5
FEDERAL HIGHWAY ADMIN	23.4	33.1	26.4	42.5	52.6	52.5	48.7	53.1	56.3	48.9	50.7
FEDERAL RAILROAD ADMIN	31.8	34.4	42.0	40.5	45.6	51.5	51.7	53.2	48.2	19.4	18.2
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	47.6	44.4	36.2	33.8	49.3	68.3	53.4	60.1	60.3	63.6	56.6
URBAN MASS TRANS ADMIN	69.0	54.1	59.1	46.9	50.4	52.5	50.5	58.9	61.9	48.9	29.3
OTHER TRANSPORTATION	52.4	47.1	50.0	47.2	48.3	40.1	49.9	45.2	69.4	46.6	43.3
DEPT OF THE TREASURY, TOTAL	1.0	1.1	1.7	3.7	4.9	9.9	9.5	10.9	10.8	12.4	12.3
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,363.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	1,488.9	1,835.4	2,189.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	144.7	161.3	207.2	259.0	281.3	310.3	386.5	384.7	344.3	334.7	273.9
FOUNDATION FOR EDUCATION ASST 2/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	111.8	105.6	104.1
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	75.8	107.8	159.9	159.5	183.3
NAT'L AERONAUTICS & SPACE ADMIN .	3,270.5	3,181.1	3,181.2	3,548.1	3,840.3	3,858.9	4,063.8	4,711.3	5,278.7	5,696.1	6,460.2
NATIONAL SCIENCE FOUNDATION	427.8	570.7	571.3	619.0	649.6	700.5	775.2	830.6	893.3	1,018.3	907.8
NUCLEAR REGULATORY COMMISSION ...	N/A	42.3	55.8	73.3	101.7	125.4	137.5	175.4	2[illegible]	207.1	200.7
OFFICE OF ECONOMIC OPPORTUNITY ..	76.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	[illegible]	N/A	N/A
VETERANS ADMINISTRATION	75.0	80.4	94.8	97.7	106.9	114.3	120.3	134.4	137.8	130.5	140.1
ALL OTHER AGENCIES	47.9	105.5	104.7	84.0	104.9	128.1	136.5	183.8	202.9	173.6	166.8

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-114. FEDERAL OUTLAYS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL AGENCIES	638.4	704.6	829.7	800.6	800.2	1,107.8	1,202.8	1,481.7	1,606.7	1,695.3	1,207.9
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	8.6	5.9	7.9	8.8	22.5	18.6	21.7	27.7	39.0	39.4	33.9
DEPARTMENT OF COMMERCE, TOTAL 1/.	5.8	11.9	10.5	7.8	5.7	3.5	1.9	4.8	1,085.8	1,182.5	646.1
DEPARTMENT OF DEFENSE, TOTAL	157.0	164.9	152.9	144.2	125.6	312.6	235.8	204.7	238.5	248.2	320.2
DEPARTMENT OF THE ARMY	46.0	31.4	30.0	20.6	14.8	6.8	2.1	7.6	8.9	13.3	23.8
DEPARTMENT OF THE NAVY	32.5	47.5	47.8	59.3	63.6	49.1	52.9	90.9	92.2	95.7	115.6
DEPARTMENT OF THE AIR FORCE	55.4	68.2	54.5	57.1	40.0	250.1	164.9	103.0	130.0	130.6	174.0
DEFENSE AGENCIES	23.0	17.7	20.6	7.2	7.2	6.6	15.9	3.2	7.4	8.6	6.8
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	427.1	481.3	653.5	962.8	N/A	N/A	N/A
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	62.7	33.3	85.9	52.4	45.6	68.0	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	73.4	76.9	42.6	33.9	35.0
DEPT OF THE INTERIOR, TOTAL	16.7	2.0	2.4	.8	4.4	7.7	9.0	8.7	4.1	2.0	1.6
DEPARTMENT OF STATE, TOTAL	.6	.2	.3	1.2	4.0	.1	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	25.0	35.4	14.7	12.1	17.5	13.2	16.2	16.3	16.2	19.8	8.1
DEPT OF THE TREASURY, TOTAL	*	*	*	.1	.1	*	*	*	.1	.1	.1
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	261.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	336.1	411.2	364.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	3.0	10.9	11.3	6.7	1.6	2.2	2.4	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	4.5	6.6	6.2	9.3	12.0
NAT'L AERONAUTICS & SPACE ADMIN	44.7	75.1	85.3	120.9	105.0	124.3	132.7	140.3	146.9	134.9	121.8
NATIONAL SCIENCE FOUNDATION	43.1	14.0	29.1	50.1	25.1	38.0	29.4	17.6	12.7	9.5	15.2
NUCLEAR REGULATORY COMMISSION	N/A	3.8	2.6	3.5	6.1	6.2	8.0	7.4	7.3	6.6	5.8
VETERANS ADMINISTRATION	7.8	5.3	2.2	11.8	5.9	9.7	2.8	4.2	6.5	7.4	6.9
ALL OTHER AGENCIES	2.3	5.8	13.2	16.0	4.0	22.3	11.5	3.7	.8	1.8	1.2

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-115. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL AGENCIES	17,574.5	18,176.5	19,859.5	21,616.4	25,350.2	27,683.0	30,453.2	33,236.1	36,403.1	40,438.0	44,272.4
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	369.4	387.5	427.9	478.6	559.9	645.9	685.7	744.5	N/A	N/A	N/A
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	30.5	32.7	35.5	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.6	1.2	1.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21.1	N/A	N/A	N/A
FOREST SERVICE	59.6	69.6	81.5	82.8	92.1	108.3	111.0	115.2	N/A	N/A	N/A
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	437.3	505.0	537.5	589.3	N/A	N/A	N/A
AGRICULTURAL RESEARCH	201.2	208.3	221.6	255.3	310.1	347.5	365.0	405.0	N/A	N/A	N/A
COOPERATIVE RESEARCH	89.4	89.4	101.1	113.4	127.3	157.4	172.6	184.2	N/A	N/A	N/A
TECHNICAL INFO SYSTEMS	.3	.1	*	*	-	-	-	-	N/A	N/A	N/A
OTHER AGRICULTURE	-	-	-	-	-	-	1.6	7.4	N/A	N/A	N/A
DEPARTMENT OF AGRICULTURE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	794.7	842.0	869.2
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.7	1.8	1.4
AGRICULTURAL MARKETING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1	1.5	-
AGRICULTURAL RESEARCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	411.6	446.2	475.4
COOPERATIVE STATE RSCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	159.4	221.2	232.1
ECONOMIC RESEARCH SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39.3	39.4	40.6
FOREST SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	129.3	110.8	98.4
STATISTICAL REPORTING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.5	7.0	8.0
OTHER AGRICULTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.7	14.2	13.2
DEPARTMENT OF COMMERCE, TOTAL	198.5	192.2	224.9	235.5	251.8	287.7	311.8	347.2	6,225.7	5,848.4	4,871.9
ENERGY RSCH & TECH ADMIN 1/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5,896.4	5,558.6	4,634.0
NATIONAL BUREAU OF STANDARDS	38.9	41.1	44.6	47.9	53.9	59.1	69.3	76.4	83.0	99.3	83.5
NAT'L OCEANIC & ATMOS ADMIN	119.3	117.0	135.1	139.1	147.2	163.7	171.2	203.6	202.2	166.3	140.8
OTHER COMMERCE	40.2	34.1	45.3	48.5	50.7	64.9	71.3	67.1	44.1	24.2	13.6
DEPARTMENT OF DEFENSE, TOTAL	8,550.6	8,589.5	9,179.6	9,798.1	11,409.0	11,786.2	12,776.4	14,189.2	16,786.3	20,887.5	24,885.5
DEPARTMENT OF THE ARMY	2,030.7	2,042.0	1,920.7	2,026.0	2,458.2	2,556.5	2,772.5	2,993.8	3,257.0	3,730.0	4,627.2
DEPARTMENT OF THE NAVY	2,690.5	2,772.6	3,162.8	3,373.8	3,878.6	4,046.7	4,403.1	4,789.3	5,103.9	5,930.7	6,378.6
DEPARTMENT OF THE AIR FORCE	3,344.1	3,283.9	3,573.1	3,799.6	4,381.1	4,422.4	4,693.1	5,319.0	7,128.8	9,494.1	11,604.0
DEFENSE AGENCIES	457.1	464.1	497.4	573.9	659.5	724.5	878.4	1,049.2	1,255.6	1,681.8	2,217.3
DEFENSE CIVIL PREPAREDNESS AGENCY	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.1	50.9	58.4
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	166.3	139.4	N/A	N/A	N/A
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	4,097.2	4,935.5	5,483.2	5,777.8	N/A	N/A	N/A
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,879.1	2,331.0	2,436.5	2,616.7	2,955.9	3,281.5	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	122.2	155.6	139.4	139.5	153.0	180.2	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	106.8	75.7	69.9	63.7	64.9	89.5	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,355.5	1,777.3	1,918.2	2,092.5	2,411.7	2,654.2	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	58.3	51.5	45.9	58.2	31.1	32.9	N/A	N/A	N/A	N/A	N/A
OTHER HEW	236.4	270.9	263.1	262.8	295.3	324.7	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	3,558.4	3,810.8	3,950.9	4,002.8	4,172.4
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	214.4	233.5	239.7	259.0	288.8
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	3,000.8	3,211.2	3,355.5	3,454.8	3,554.1
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	343.2	366.1	355.7	289.0	329.5
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	57.8	64.8	62.0	67.6	52.1	69.7	67.9	56.0	48.1	34.5	31.1
DEPT OF THE INTERIOR, TOTAL	265.8	194.5	307.2	339.1	319.7	374.0	410.8	418.8	430.6	405.1	366.4
BUREAU OF MINES	77.5	66.1	107.6	131.3	105.3	121.1	121.3	114.4	97.4	94.9	77.9
GEOLOGICAL SURVEY	67.3	66.6	106.6	110.3	117.5	133.7	145.6	146.3	169.8	157.8	149.5
OTHER INTERIOR	121.0	61.8	93.0	97.5	96.8	119.3	143.9	158.0	163.4	152.4	139.0
DEPARTMENT OF JUSTICE, TOTAL	33.2	34.7	44.3	33.9	27.7	60.9	43.0	41.5	26.5	30.0	22.0
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	30.4	27.3	40.9	29.2	21.8	51.6	32.2	33.2	21.0	19.7	15.2
OTHER JUSTICE	2.8	7.4	3.4	4.6	5.8	9.3	10.7	8.4	5.5	10.3	6.8
DEPARTMENT OF LABOR, TOTAL	19.9	23.8	25.4	28.5	29.6	97.8	137.0	138.1	62.2	30.8	9.9
DEPARTMENT OF STATE, TOTAL	26.6	22.9	27.9	44.5	77.6	85.4	3.2	2.2	1.8	2.0	1.8
AGENCY FOR INTERNAT'L DEVMNT	25.1	21.4	26.7	42.9	75.3	82.6	N/A	N/A	N/A	N/A	N/A
OTHER STATE	1.5	1.5	1.2	1.6	2.3	2.8	3.2	2.2	1.8	2.0	1.8

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TABLE C-115. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
DEPT OF TRANSPORTATION, TOTAL ...	348.9	383.2	324.8	308.7	377.1	422.4	392.7	384.5	434.5	342.1	375.9
FEDERAL AVIATION ADMIN	81.0	125.4	109.0	100.1	106.4	111.5	120.4	108.8	128.9	102.7	160.3
FEDERAL HIGHWAY ADMIN	23.7	41.2	45.1	29.3	55.9	52.1	53.5	58.3	51.2	49.9	51.8
FEDERAL RAILROAD ADMIN	46.9	37.4	39.4	60.5	58.5	65.7	56.1	56.4	46.1	43.3	20.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	54.6	53.6	34.0	31.4	47.2	66.5	56.8	63.8	66.4	55.3	59.7
URBAN MASS TRANS ADMIN	74.4	69.2	49.4	48.8	61.6	69.6	58.0	54.4	78.2	48.4	34.0
OTHER TRANSPORTATION	68.3	56.4	47.8	38.6	47.5	57.0	47.8	42.9	63.6	42.5	50.1
DEPT OF THE TREASURY, TOTAL	1.0	1.1	1.7	3.8	4.9	9.9	9.6	12.1	11.4	12.1	13.2
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,712.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	1,881.6	2,439.9	2,902.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	205.1	170.5	259.7	265.4	297.6	389.3	412.5	345.0	325.7	317.1	229.9
FOUNDATION FOR EDUCATION ASST 2/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	104.9	84.9	87.0
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	112.9	155.6	142.2	163.8	139.9
NAT'L AERONAUTICS & SPACE ADMIN .	3,130.2	3,100.5	3,207.1	3,529.0	3,821.5	4,037.8	4,558.5	5,243.2	5,522.4	5,940.0	6,612.9
NATIONAL SCIENCE FOUNDATION	537.0	568.1	618.1	661.8	724.1	788.5	838.1	900.5	976.2	970.5	1,049.2
NUCLEAR REGULATORY COMMISSION ...	N/A	46.1	67.2	78.1	119.4	140.8	157.4	190.4	227.3	222.7	219.7
OFFICE OF ECONOMIC OPPORTUNITY ..	87.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	84.6	86.9	97.0	109.5	112.9	118.1	132.1	137.8	159.2	137.4	146.8
ALL OTHER AGENCIES	66.7	97.6	108.3	95.0	112.4	151.5	195.9	201.6	172.7	164.2	167.7

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-116. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL AGENCIES	16,800.2	17,410.1	19,038.8	20,779.7	23,983.0	26,387.3	28,977.7	31,680.4	34,917.4	38,954.1	42,973.8
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	366.5	378.7	420.1	462.4	547.0	621.3	663.0	687.6	N/A	N/A	N/A
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	30.5	32.7	35.5	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.6	1.2	1.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A	N/A	N/A
FOREST SERVICE	58.4	65.5	78.2	79.9	90.3	105.6	107.5	111.5	N/A	N/A	N/A
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	426.2	483.0	518.4	536.0	N/A	N/A	N/A
AGRICULTURAL RESEARCH	199.5	203.5	217.1	242.1	298.9	325.5	345.8	351.8	N/A	N/A	N/A
COOPERATIVE RESEARCH	89.4	89.4	101.1	113.4	127.3	157.4	172.6	184.2	N/A	N/A	N/A
TECHNICAL INFO SYSTEMS	.3	.1	*	*	-	-	-	-	N/A	N/A	N/A
OTHER AGRICULTURE	-	-	-	-	-	-	1.6	7.4	N/A	N/A	N/A
DEPARTMENT OF AGRICULTURE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	774.0	807.4	838.9
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.7	1.8	1.4
AGRICULTURAL MARKETING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1	1.5	-
AGRICULTURAL RESEARCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	394.1	412.0	454.5
COOPERATIVE STATE RSCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	199.4	221.2	223.3
ECONOMIC RESEARCH SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39.3	39.4	40.6
FOREST SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	126.1	110.4	98.0
STATISTICAL REPORTING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.5	7.0	8.0
OTHER AGRICULTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.7	14.2	13.2
DEPARTMENT OF COMMERCE, TOTAL	190.6	180.6	215.4	228.9	244.7	283.7	309.4	342.5	5,246.2	4,864.4	4,178.9
ENERGY RSCH & TECH ADMIN 1/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4,918.2	4,583.5	3,944.2
NATIONAL BUREAU OF STANDARDS	36.8	40.2	43.2	47.4	53.2	58.3	67.8	76.2	82.5	90.3	80.3
NAT'L OCEANIC & ATMOS ADMIN	115.6	109.1	128.0	135.1	145.7	161.5	171.2	199.8	201.4	166.3	140.8
OTHER COMMERCE	38.1	31.3	44.2	46.3	45.8	63.9	70.4	66.6	44.1	24.2	13.6
DEPARTMENT OF DEFENSE, TOTAL	8,404.2	8,420.4	9,012.5	9,654.7	10,963.4	11,553.6	12,506.2	13,981.0	16,508.6	20,602.3	24,519.6
DEPARTMENT OF THE ARMY	2,013.6	2,009.9	1,896.7	2,013.7	2,441.9	2,548.9	2,768.7	2,980.0	3,244.2	3,702.2	4,594.3
DEPARTMENT OF THE NAVY	2,654.8	2,718.5	3,100.2	3,328.0	3,817.4	3,998.4	4,335.0	4,706.1	5,006.0	5,820.2	6,251.4
DEPARTMENT OF THE AIR FORCE	3,273.5	3,216.2	3,513.5	3,726.6	4,031.1	4,262.3	4,525.6	5,211.0	6,969.2	9,355.8	11,405.0
DEFENSE AGENCIES	434.1	448.9	476.5	561.6	641.4	707.9	847.6	1,046.0	1,248.2	1,673.2	2,210.5
DEFENSE CIVIL PREPAREDNESS AGENCY	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.1	50.9	58.4
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	166.3	139.4	N/A	N/A	N/A
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	3,536.2	4,244.8	4,638.8	4,753.7	N/A	N/A	N/A
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,837.6	2,290.1	2,397.5	2,583.6	2,823.3	3,207.3	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	122.2	155.6	139.4	139.5	153.0	180.2	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	106.8	75.7	69.9	63.7	64.9	89.5	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,314.2	1,736.8	1,879.9	2,060.2	2,279.9	2,580.9	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	58.3	51.5	45.9	58.2	31.1	32.9	N/A	N/A	N/A	N/A	N/A
OTHER HEW	236.1	270.5	262.4	261.9	294.5	323.8	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	3,504.9	3,780.2	3,927.1	3,967.9	4,117.8
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	214.3	233.5	239.4	252.2	288.7
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	2,953.1	3,181.8	3,333.2	3,428.7	3,534.6
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	337.5	364.9	354.5	287.0	294.5
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	57.8	64.8	62.0	67.6	52.1	69.7	67.9	56.0	48.1	34.5	31.1
DEPT OF THE INTERIOR, TOTAL	243.7	192.4	303.3	333.2	314.7	359.0	405.8	411.3	427.1	403.4	364.7
BUREAU OF MINES	77.5	66.1	107.6	131.3	101.9	114.0	121.0	113.4	96.7	94.6	77.9
GEOLOGICAL SURVEY	66.6	66.2	106.6	110.3	117.5	133.7	145.6	146.3	169.8	157.8	149.5
OTHER INTERIOR	99.6	60.1	89.1	91.6	95.3	111.4	139.2	151.5	160.6	151.0	137.2
DEPARTMENT OF JUSTICE, TOTAL	33.2	34.7	44.3	33.9	27.7	60.9	43.0	41.5	26.5	30.0	22.0
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	30.4	27.3	40.9	29.2	21.8	51.6	32.2	33.2	21.0	19.7	15.2
OTHER JUSTICE	2.8	7.4	3.4	4.6	5.8	9.3	10.7	8.4	5.5	10.3	6.8
DEPARTMENT OF LABOR, TOTAL	19.9	23.8	25.4	28.5	29.6	97.8	137.0	138.1	62.2	30.8	9.9
DEPARTMENT OF STATE, TOTAL	26.2	22.5	27.9	39.4	61.4	85.2	3.2	2.2	1.8	2.0	1.8
AGENCY FOR INTERNAT'L DEVMNT	24.7	21.1	26.7	37.8	59.1	82.4	N/A	N/A	N/A	N/A	N/A
OTHER STATE	1.5	1.5	1.2	1.6	2.3	2.8	3.2	2.2	1.8	2.0	1.8

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TABLE C-116. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
DEPT OF TRANSPORTATION, TOTAL ...	310.6	369.8	311.6	294.5	354.6	408.3	370.1	361.2	415.5	327.8	366.5
FEDERAL AVIATION ADMIN	79.5	125.0	105.6	98.1	103.4	110.5	110.5	103.1	120.1	96.7	151.5
FEDERAL HIGHWAY ADMIN	23.6	40.8	44.7	28.9	55.5	51.7	52.9	51.1	51.2	49.9	51.8
FEDERAL RAILROAD ADMIN	35.5	33.5	32.4	50.4	41.9	53.9	44.2	46.2	36.6	35.6	20.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	54.6	53.6	34.0	31.4	47.0	66.3	56.6	63.6	65.9	54.7	59.1
URBAN MASS TRANS ADMIN	66.2	55.6	47.7	47.5	59.9	69.6	58.0	54.4	78.2	48.4	34.0
OTHER TRANSPORTATION	51.3	51.3	47.2	38.2	46.9	56.3	47.8	42.9	63.6	42.5	50.1
DEPT OF THE TREASURY, TOTAL	1.0	1.1	1.7	3.7	4.8	9.9	9.5	12.0	11.3	12.1	13.2
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,363.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	1,488.9	2,047.3	2,463.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	180.6	169.2	257.7	259.1	295.5	384.6	410.1	345.0	325.7	317.1	229.9
FOUNDATION FOR EDUCATION ASST 2/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	104.9	64.9	87.0
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	106.5	149.3	134.2	155.9	132.0
NAT'L AERONAUTICS & SPACE ADMIN .	3,060.9	3,002.2	3,064.4	3,446.8	3,703.4	3,875.4	4,411.0	5,084.1	5,406.6	5,841.3	6,512.9
NATIONAL SCIENCE FOUNDATION	479.9	556.4	595.0	609.3	697.0	748.8	807.9	881.8	961.6	959.6	1,025.1
NUCLEAR REGULATORY COMMISSION ...	N/A	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7	215.8	213.5
OFFICE OF ECONOMIC OPPORTUNITY ..	87.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	74.3	84.8	94.8	97.7	107.0	114.0	127.0	133.4	144.4	135.0	142.6
ALL OTHER AGENCIES	62.0	87.4	93.9	84.2	108.5	129.1	141.5	197.4	171.9	162.1	166.5

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-117. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL AGENCIES	774.3	766.3	820.7	836.7	1,367.2	1,295.7	1,475.5	1,555.7	1,485.7	1,483.9	1,298.6
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	2.9	8.8	7.8	16.1	12.9	24.7	22.6	56.9	20.8	34.6	30.2
DEPARTMENT OF COMMERCE, TOTAL 1/.	7.9	11.6	9.5	6.6	7.1	4.1	2.4	4.6	979.5	984.1	693.0
DEPARTMENT OF DEFENSE, TOTAL	146.4	169.1	167.1	143.4	445.6	232.6	270.2	208.2	277.7	285.2	365.9
DEPARTMENT OF THE ARMY	17.1	32.1	23.9	12.2	16.3	7.6	3.8	13.8	12.8	27.8	32.9
DEPARTMENT OF THE NAVY	35.7	54.0	62.7	45.8	61.2	48.3	68.1	83.2	97.9	110.5	127.2
DEPARTMENT OF THE AIR FORCE	70.6	67.7	59.6	73.0	350.0	160.1	167.5	108.0	159.6	138.3	199.0
DEFENSE AGENCIES	23.0	15.3	20.9	12.3	18.1	16.6	30.8	3.2	7.4	8.6	6.8
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	561.0	690.7	844.4	1,024.1	N/A	N/A	N/A
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	41.6	40.9	39.1	33.1	132.6	74.3	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	53.5	30.6	23.7	34.8	54.6
DEPT OF THE INTERIOR, TOTAL	22.0	2.1	3.9	5.9	5.0	15.0	5.0	7.5	3.5	1.7	1.7
DEPARTMENT OF STATE, TOTAL	.4	.4	-	5.1	16.2	.2	-	-	-	-	-
DEPT OF TRANSPORTATION, TOTAL	38.2	13.4	13.3	14.2	22.5	14.1	22.6	23.3	18.9	14.3	9.4
DEPT OF THE TREASURY, TOTAL	•	•	•	.1	.1	•	•	•	.1	.1	.1
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	349.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	392.7	392.6	438.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	24.5	1.2	2.1	6.3	2.1	4.6	2.4	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	6.4	6.3	8.0	7.9	7.9
NAT'L AERONAUTICS & SPACE ADMIN	69.3	98.4	142.7	82.1	118.1	162.3	147.5	159.1	115.8	98.7	100.0
NATIONAL SCIENCE FOUNDATION	57.1	11.7	23.1	52.6	27.1	39.7	30.2	18.7	14.6	11.0	24.1
NUCLEAR REGULATORY COMMISSION	N/A	3.8	3.0	9.6	7.1	6.9	8.6	7.7	7.7	6.9	6.2
VETERANS ADMINISTRATION	10.3	2.1	2.2	11.8	5.9	4.1	5.1	4.4	14.8	2.4	4.2
ALL OTHER AGENCIES	4.6	10.2	14.4	10.8	3.9	22.4	54.4	4.2	.8	2.1	1.2

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

• INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-118. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT BY CHARACTER OF WORK, AND R&D PLANT: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

FISCAL YEARS	TOTAL	RESEARCH		DEVELOPMENT	R&D PLANT
		BASIC	APPLIED		
1973	17,574.5	2,232.0	3,349.4	11,218.7	774.3
1974	18,176.5	2,387.7	3,787.6	11,234.9	766.3
1975	19,859.5	2,588.4	4,141.3	12,309.1	820.7
1976	21,616.4	2,767.5	4,851.9	13,160.3	836.7
1977	25,350.2	3,258.6	5,255.5	15,468.9	1,367.2
1978	27,683.0	3,698.6	5,908.2	16,780.5	1,295.7
1979	30,453.2	4,192.7	6,342.3	18,442.7	1,475.5
1980	33,236.1	4,674.2	6,923.2	20,083.0	1,555.7
1981	36,403.1	5,041.3	7,171.5	22,704.6	1,485.7
1982 (ESTIMATED)	40,438.0	5,310.8	7,284.1	26,359.1	1,483.9
1983 (ESTIMATED)	44,272.4	5,765.2	7,499.7	29,708.9	1,298.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-119. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL AGENCIES	5,581.4	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	12,595.0	13,264.9
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	354.1	365.1	401.9	442.2	524.0	594.5	631.9	657.4	N/A	N/A	N/A
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	29.7	32.7	35.5	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.5	.4	1.0	1.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31.1	N/A	N/A	N/A
FOREST SERVICE	56.1	62.3	73.3	74.5	86.[illegible]	100.7	102.5	106.1	N/A	N/A	N/A
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	408.[illegible]	461.1	493.5	512.8	N/A	N/A	N/A
AGRICULTURAL RESEARCH	189.7	193.4	204.1	227.6	281.0	303.7	320.9	328.6	N/A	N/A	N/A
COOPERATIVE RESEARCH	89.4	89.4	101.1	113.4	127.3	157.4	172.6	184.2	N/A	N/A	N/A
TECHNICAL INFO SYSTEMS	.3	.1	*	*	-	-	-	-	N/A	N/A	N/A
OTHER AGRICULTURE	-	-	-	-	-	-	.4	5.9	N/A	N/A	N/A
DEPARTMENT OF AGRICULTURE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	741.0	775.3	808.2
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.7	1.8	1.4
AGRICULTURAL MARKETING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.9	1.2	-
AGRICULTURAL RESEARCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	367.9	385.8	428.2
COOPERATIVE STATE RSCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	199.4	221.2	223.3
ECONOMIC RESEARCH SERVICE	N/A	N/A	N/A	N/A	N/[illegible]	N/A	N/A	N/A	39.3	39.4	40.6
FOREST SERVICE	N/A	N/A	N/A	N/A	N/[illegible]	N/A	N/A	N/A	119.9	106.0	94.6
STATISTICAL REPORTING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.5	7.0	8.0
OTHER AGRICULTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.3	13.0	12.0
DEPARTMENT OF COMMERCE, TOTAL	130.2	129.2	144.4	155.7	176.1	192.8	219.5	254.4	1,663.0	1,762.2	1,685.2
ENERGY RSCH & TECH ADMIN 1/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,413.6	1,542.3	1,499.1
NATIONAL BUREAU OF STANDARDS	31.0	32.7	34.7	37.5	45.0	48.5	51.8	58.9	66.2	71.9	72.1
NAT'L OCEANIC & ATMOS ADMIN	89.1	87.1	99.7	104.9	115.8	127.9	142.7	168.8	168.5	133.2	103.1
OTHER COMMERCE	10.0	9.4	10.0	13.3	15.4	16.3	25.0	26.7	14.7	14.9	10.9
DEPARTMENT OF DEFENSE, TOTAL	1,436.1	1,434.4	1,431.0	1,527.5	1,715.8	1,824.1	2,014.1	2,261.8	2,600.9	2,883.1	3,326.1
DEPARTMENT OF THE ARMY	377.1	366.5	336.4	362.4	398.0	409.8	448.6	479.3	536.5	583.5	708.6
DEPARTMENT OF THE NAVY	386.3	401.3	406.5	438.0	497.4	526.3	567.3	611.1	698.0	770.6	851.3
DEPARTMENT OF THE AIR FORCE	341.0	341.7	355.8	382.3	425.8	448.7	492.3	537.3	617.3	592.4	706.2
DEFENSE AGENCIES	328.5	322.2	330.6	344.1	393.4	431.7	505.9	634.1	749.1	936.6	1,059.9
DEFENSE CIVIL PREPAREDNESS AGENCY	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	93.4	87.6	N/A	N/A	N/A
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	891.3	1,102.2	1,131.8	1,277.3	N/A	N/A	N/A
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,444.2	1,846.7	1,924.8	2,150.7	2,414.3	2,740.7	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	122.2	155.6	139.4	136.6	152.0	178.8	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	16.1	9.5	4.1	10.8	27.1	34.6	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,132.1	1,489.6	1,604.2	1,767.7	1,968.7	2,232.6	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	6.6	6.4	5.3	21.4	11.9	13.3	N/A	N/A	N/A	N/A	N/A
OTHER HEW	167.2	185.5	171.9	214.2	254.6	281.4	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	3,015.7	3,332.8	3,492.2	3,554.2	3,703.3
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	213.5	233.5	237.7	250.7	287.0
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	2,530.1	2,787.5	2,948.3	3,047.1	3,146.3
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	272.0	311.8	306.2	256.4	270.0
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	18.4	33.8	33.5	36.9	32.7	30.5	23.8	19.6	16.7	13.0	12.4
DEPT OF THE INTERIOR, TOTAL	160.2	143.5	234.1	259.5	255.9	283.5	339.5	354.4	369.8	349.8	318.7
BUREAU OF MINES	41.5	30.5	52.9	73.3	52.3	57.0	79.1	82.8	68.0	69.8	56.9
GEOLOGICAL SURVEY	62.9	66.2	106.6	110.3	117.5	133.7	145.1	145.8	169.3	157.3	149.5
OTHER INTERIOR	55.8	46.7	74.5	75.8	86.2	92.8	115.3	125.8	132.6	122.7	112.3
DEPARTMENT OF JUSTICE, TOTAL	7.0	18.6	18.9	18.3	17.6	45.7	28.8	28.8	19.5	19.2	15.3
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	5.5	16.9	17.9	17.7	16.4	43.3	25.9	25.6	16.7	15.3	12.2
OTHER JUSTICE	1.6	1.7	1.0	.6	1.2	2.4	2.9	3.1	2.8	3.8	3.2
DEPARTMENT OF LABOR, TOTAL	13.3	17.2	15.3	18.0	18.7	25.7	42.1	36.4	58.2	29.3	9.4
DEPARTMENT OF STATE, TOTAL	24.6	17.8	22.5	25.1	38.3	49.1	2.7	2.0	1.6	2.0	1.8
AGENCY FOR INTERNAT'L DEVMNT	23.9	16.8	21.7	24.0	36.2	46.6	N/A	N/A	N/A	N/A	N/A
OTHER STATE	.8	1.1	.7	1.1	2.1	2.5	2.7	2.0	1.6	2.0	1.8

CONTINUED ON NEXT PAGE

TABLE C-119. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

N/A CONTINUED

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
DEPT OF TRANSPORTATION, TOTAL ...	77.2	61.8	53.8	31.1	51.8	66.5	67.0	82.4	88.6	69.1	73.3
FEDERAL AVIATION ADMIN	17.8	13.9	14.1	3.6	4.7	6.8	7.5	8.2	8.2	3.1	8.0
FEDERAL HIGHWAY ADMIN	1.8	3.3	3.4	1.9	5.3	4.9	4.4	4.6	5.1	5.0	5.2
FEDERAL RAILROAD ADMIN	15.4	1.6	2.7	8.6	6.6	9.2	7.5	7.9	6.2	6.1	3.4
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	21.7	14.9	12.0	9.9	27.5	38.0	30.0	38.6	29.4	22.2	22.6
URBAN MASS TRANS ADMIN	6.3	6.2	2.9	.6	1.0	1.1	1.1	8.9	9.3	11.0	8.5
OTHER TRANSPORTATION	14.2	21.9	18.7	6.5	6.7	6.5	16.5	14.2	30.4	21.7	25.6
DEPT OF THE TREASURY, TOTAL	.4	.5	.4	1.5	2.1	4.1	4.7	5.7	5.2	6.5	9.7
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	424.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	464.7	593.4	746.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	74.3	96.3	141.7	155.4	205.3	252.7	259.0	245.1	218.3	216.6	159.8
FOUNDATION FOR EDUCATION ASST 2/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.8	41.5	44.6
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	66.9	79.7	86.4	101.4	91.5
NAT'L AERONAUTICS & SPACE ADMIN .	793.9	845.7	935.1	1,222.8	1,206.1	1,345.2	1,451.2	1,609.6	1,407.2	1,384.8	1,531.7
NATIONAL SCIENCE FOUNDATION	464.0	520.3	570.0	595.8	688.3	743.5	800.0	873.7	955.5	959.6	1,025.1
NUCLEAR REGULATORY COMMISSION ...	N/A	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7	215.8	213.5
OFFICE OF ECONOMIC OPPORTUNITY ..	32.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	69.7	78.7	87.1	85.1	92.3	99.4	111.4	117.9	127.7	120.6	127.6
ALL OTHER AGENCIES	56.7	58.7	57.5	58.7	71.2	72.7	82.8	88.1	87.6	91.0	107.6

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

• INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-120. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL AGENCIES	2,232.0	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3	5,310.8	5,765.2
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	142.7	145.6	154.2	171.4	204.5	242.7	256.4	275.7	N/A	N/A	N/A
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	3.8	3.9	6.4	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	4.8	5.4	3.2	3.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.1	*	.3	.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.6	N/A	N/A	N/A
FOREST SERVICE	19.3	20.7	21.1	22.6	26.7	30.8	31.4	33.7	N/A	N/A	N/A
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	174.0	207.9	218.6	233.0	N/A	N/A	N/A
AGRICULTURAL RESEARCH	84.6	85.5	91.2	101.7	125.6	142.4	148.2	157.8	N/A	N/A	N/A
COOPERATIVE RESEARCH	34.0	34.0	38.4	43.1	48.4	65.6	70.5	75.2	N/A	N/A	N/A
OTHER AGRICULTURE	-	-	-	-	-	-	-	2.3	N/A	N/A	N/A
DEPARTMENT OF AGRICULTURE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	314.1	332.1	359.1
AGRICULTURAL RESEARCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	186.4	196.1	221.6
COOPERATIVE STATE RSCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	83.9	91.9	96.4
ECONOMIC RESEARCH SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.6	3.6	3.6
FOREST SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	38.1	38.1	35.3
OTHER AGRICULTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.2	N/A	2.2
DEPARTMENT OF COMMERCE, TOTAL	6.6	7.7	8.1	11.0	12.3	11.8	11.9	15.9	602.5	664.3	756.5
ENERGY RSCH & TECH ADMIN 1/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	586.3	646.8	738.7
NATIONAL BUREAU OF STANDARDS	4.5	6.2	5.4	5.8	6.9	5.9	8.8	12.8	15.6	16.9	17.3
OTHER COMMERCE	2.2	1.5	2.8	5.2	5.4	5.9	3.1	3.1	.6	.6	.4
DEPARTMENT OF DEFENSE, TOTAL	306.7	302.9	300.1	326.9	373.3	410.4	471.5	540.3	604.3	674.2	782.1
DEPARTMENT OF THE ARMY	76.9	76.3	71.7	81.4	99.0	104.1	115.0	132.2	148.1	167.1	203.6
DEPARTMENT OF THE NAVY	112.7	114.2	118.7	129.7	153.8	172.1	192.1	214.9	238.0	280.0	305.0
DEPARTMENT OF THE AIR FORCE	79.9	77.5	78.9	83.9	84.8	95.1	105.0	108.2	125.8	140.4	164.2
DEFENSE AGENCIES	37.2	34.9	30.7	31.9	35.6	39.1	59.3	85.1	92.4	86.7	109.3
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	20.6	17.6	N/A	N/A	N/A
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	389.5	440.5	463.0	523.1	N/A	N/A	N/A
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	667.3	850.1	903.7	986.2	1,119.5	1,292.3	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	52.6	53.3	66.2	52.6	62.7	79.9	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	11.4	4.8	1.9	5.1	11.9	18.3	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	593.0	775.3	828.5	920.3	1,032.8	1,181.1	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	.1	.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OTHER HEW	10.4	16.5	7.1	8.2	12.2	13.1	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	1,576.0	1,762.7	1,900.4	1,970.7	2,042.3
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	94.6	104.7	116.3	124.4	135.4
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	1,463.7	1,642.3	1,766.8	1,839.4	1,896.7
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	17.7	15.6	17.3	6.9	10.2
DEPT OF THE INTERIOR, TOTAL	48.7	48.7	54.9	54.3	63.6	65.9	72.5	71.6	80.7	74.2	67.6
BUREAU OF MINES	6.9	5.6	1.9	.8	4.0	8.6	13.7	11.5	13.6	12.9	12.5
GEOLOGICAL SURVEY	27.7	27.2	38.6	39.5	40.3	46.3	49.0	47.3	53.5	52.6	50.0
OTHER INTERIOR	14.1	15.9	14.4	14.0	19.3	11.0	9.8	12.8	13.6	8.6	5.1
DEPARTMENT OF JUSTICE, TOTAL	2.1	2.1	9.5	4.5	5.1	14.7	7.9	9.9	4.6	4.4	3.8
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	2.1	2.1	9.5	4.5	5.1	14.7	7.9	9.5	4.6	4.4	3.8
DEPARTMENT OF LABOR, TOTAL	1.3	1.2	.9	1.0	.7	3.7	2.3	3.9	3.7	3.6	-
DEPARTMENT OF STATE, TOTAL	-	-	1.5	-	-	-	*	-	-	-	-
AGENCY FOR INTERNAT'L DEVMNT	-	-	1.5	-	-	-	N/A	N/A	N/A	N/A	N/A
OTHER STATE	-	-	-	-	-	-	*	-	-	-	-

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TABLE C-120. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
DEPT OF TRANSPORTATION, TOTAL ...	.2	.3	.1	-	-	-	-	-	1.2	.9	.7
OTHER TRANSPORTATION	.2	.3	.1	-	-	-	-	-	1.2	.9	.7
DEPT OF THE TREASURY, TOTAL	-	-	-	-	-	-	.2	1.7	2.3	2.0	3.1
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	275.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	269.5	312.8	345.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	9.0	9.5	17.4	13.7	8.3	6.0	10.1	13.6	10.5	14.7	9.8
FOUNDATION FOR EDUCATION ASST 2/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.6	15.3	15.5
NAT'L AERONAUTICS & SPACE ADMIN .	350.3	305.9	309.3	293.2	413.8	479.7	512.8	559.1	531.1	575.3	677.2
NATIONAL SCIENCE FOUNDATION	392.4	415.2	486.0	523.6	624.9	678.0	733.3	815.2	896.6	910.8	975.6
OFFICE OF ECONOMIC OPPORTUNITY ..	.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	3.2	3.6	3.9	8.9	9.1	8.9	9.5	14.3	15.0	13.0	13.9
ALL OTHER AGENCIES	25.3	25.5	26.1	27.0	34.2	43.9	44.6	49.8	53.6	55.4	57.9

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

• INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-121. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL AGENCIES	3,349.4	3,7[illegible].6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5	7,284.1	7,499.7
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	211.4	219.5	247.8	270.9	319.6	351.8	375.5	381.8	N/A	N/A	N/A
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	25.9	28.8	29.1	N/A	N/A	N/A	N/A
ECONOMIC RESEARCH SVC	12.2	12.7	18.1	20.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.4	.4	.7	1.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ECONOMICS & STATISTICS SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	[illegible].5	N/A	N/A	N/A
FOREST SERVICE	36.8	41.6	52.2	51.9	59.4	69.8	71.1	72.3	N/A	N/A	N/A
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	234.3	253.2	274.8	279.8	N/A	N/A	N/A
AGRICULTURAL RESEARCH	105.1	107.9	112.9	125.9	155.4	161.3	172.7	170.8	N/A	N/A	N/A
COOPERATIVE RESEARCH	55.4	55.4	62.7	70.3	78.9	91.9	102.1	109.0	N/A	N/A	N/A
TECHNICAL INFO SYSTEMS	.3	.1	*	*	-	-	-	-	N/A	N/A	N/A
OTHER AGRICULTURE	-	-	-	-	-	-	.4	3.6	N/A	N/A	N/A
DEPARTMENT OF AGRICULTURE, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	426.9	443.3	449.1
AGRICULTURAL COOPERATIVE SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.7	1.8	1.4
AGRICULTURAL MARKETING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	.9	1.2	-
AGRICULTURAL RESEARCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	181.5	189.6	206.7
COOPERATIVE STATE RSCH SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	115.5	129.3	126.9
ECONOMIC RESEARCH SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	35.8	35.8	37.0
FOREST SERVICE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	81.8	67.9	59.3
STATISTICAL REPORTING SVC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.5	7.0	8.0
OTHER AGRICULTURE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.2	10.8	9.8
DEPARTMENT OF COMMERCE, TOTAL	123.5	121.5	136.3	144.7	163.8	181.0	207.6	238.5	1,060.4	1,097.9	928.8
ENERGY RSCH & TECH ADMIN 1/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	827.3	895.5	760.4
NATIONAL BUREAU OF STANDARDS	26.6	26.5	29.4	31.7	38.0	42.6	43.0	46.1	50.6	55.0	54.7
NAT'L OCEANIC & ATMOS ADMIN	89.1	87.1	99.7	104.9	115.8	127.9	142.7	168.8	168.5	133.2	103.1
OTHER COMMERCE	7.8	7.9	7.2	8.1	10.0	10.4	21.9	23.6	14.0	14.3	10.5
DEPARTMENT OF DEFENSE, TOTAL	1,129.4	1,131.5	1,130.9	1,200.6	1,342.6	1,413.6	1,542.6	1,721.4	1,996.6	2,208.9	2,543.9
DEPARTMENT OF THE ARMY	300.2	290.1	264.7	281.0	299.0	305.7	333.6	347.1	388.4	416.4	505.0
DEPARTMENT OF THE NAVY	273.7	287.1	287.8	308.3	343.6	354.2	375.2	396.2	460.0	490.6	546.3
DEPARTMENT OF THE AIR FORCE	261.1	264.1	276.9	298.4	341.0	353.6	387.2	429.1	491.5	452.0	542.0
DEFENSE AGENCIES	291.2	287.3	299.9	312.2	357.8	392.5	446.6	549.1	656.7	849.9	950.6
DEFENSE CIVIL PREPAREDNESS AGENCY	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A	N/A	N/A
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	72.8	70.0	N/A	N/A	N/A
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	501.8	661.7	668.9	754.2	N/A	N/A	N/A
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	776.9	996.6	1,021.1	1,164.6	1,294.8	1,448.4	N/A	N/A	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	69.6	102.3	73.2	84.1	89.3	98.8	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	4.7	4.7	2.2	5.7	15.2	16.3	N/A	N/A	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	539.1	714.3	775.7	847.4	935.9	1,051.5	N/A	N/A	N/A	N/A	N/A
OFFICE OF EDUCATION	6.6	6.3	5.3	21.4	11.9	13.3	N/A	N/A	N/A	N/A	N/A
OTHER HEW	156.8	169.0	164.8	206.0	242.5	268.4	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	1,439.7	1,570.1	1,591.9	1,583.5	1,660.9
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	118.9	128.8	121.4	126.4	151.6
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	1,066.4	1,145.1	1,181.5	1,207.7	1,249.6
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	254.3	296.2	289.0	249.5	259.8
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	18.4	33.8	33.5	36.9	32.7	30.5	23.8	19.6	16.7	13.0	12.4
DEPT OF THE INTERIOR, TOTAL	111.4	94.8	179.1	205.1	192.4	217.6	266.9	282.8	289.2	275.7	251.0
BUREAU OF MINES	34.6	24.9	51.0	72.5	48.3	48.4	65.4	71.3	54.4	56.9	44.4
GEOLOGICAL SURVEY	35.1	39.0	68.0	70.8	77.2	87.4	96.1	98.5	115.8	104.7	99.5
OTHER INTERIOR	41.7	30.9	60.1	61.8	66.9	81.8	105.5	113.0	119.0	114.1	107.2
DEPARTMENT OF JUSTICE, TOTAL	4.9	16.5	9.4	13.8	12.5	31.0	20.9	19.2	14.9	14.7	11.5
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	3.4	14.8	8.5	13.2	11.3	28.6	18.0	16.1	12.0	10.9	8.4
OTHER JUSTICE	1.6	1.7	1.0	.6	1.2	2.4	2.9	3.1	2.8	3.8	3.2
DEPARTMENT OF LABOR, TOTAL	12.0	16.0	14.4	17.0	18.0	22.0	39.8	32.6	54.5	25.6	9.4
DEPARTMENT OF STATE, TOTAL	24.6	17.8	21.0	25.1	38.3	49.1	2.6	2.0	1.6	2.0	1.8
AGENCY FOR INTERNAT'L DEVMNT	23.9	16.8	20.2	24.0	36.2	46.6	N/A	N/A	N/A	N/A	N/A
OTHER STATE	.8	1.1	.7	1.1	2.1	2.5	2.6	2.0	1.6	2.0	1.8

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TABLE C-121. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
DEPT OF TRANSPORTATION, TOTAL ...	77.1	61.5	53.8	31.1	51.8	66.5	67.0	82.4	87.4	68.2	72.6
FEDERAL AVIATION ADMIN	17.8	13.9	14.1	3.6	4.7	6.8	7.5	8.2	8.2	3.1	8.0
FEDERAL HIGHWAY ADMIN	1.8	3.3	3.4	1.9	5.3	4.9	4.4	4.6	5.1	5.0	5.2
FEDERAL RAILROAD ADMIN	15.4	1.6	2.7	8.6	6.6	9.2	7.5	7.9	6.2	6.1	3.4
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	21.7	14.9	12.0	9.9	27.5	38.0	30.0	38.6	29.4	22.2	22.6
URBAN MASS TRANS ADMIN	6.3	6.2	2.9	.6	1.0	1.1	1.1	8.9	9.3	11.0	8.5
OTHER TRANSPORTATION	14.1	21.6	18.6	6.5	6.7	6.5	16.5	14.2	29.2	20.8	24.9
DEPT OF THE TREASURY, TOTAL	.4	.5	.4	1.5	2.1	4.1	4.5	4.0	2.9	4.5	6.6
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	149.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	195.2	280.7	400.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	65.3	86.8	124.3	141.7	197.0	246.7	248.9	231.5	207.8	201.9	150.0
FOUNDATION FOR EDUCATION ASST 2/.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	33.2	26.2	29.1
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	86.9	79.7	86.4	101.4	91.5
NAT'L AERONAUTICS & SPACE ADMIN .	443.6	539.8	625.8	929.6	792.3	865.4	938.4	1,050.5	876.0	809.5	854.5
NATIONAL SCIENCE FOUNDATION	71.5	105.0	84.0	72.1	63.4	65.5	66.8	58.4	58.9	48.8	49.6
NUCLEAR REGULATORY COMMISSION ...	N/A	42.3	64.2	88.4	112.3	133.9	148.8	182.7	219.7	215.8	213.5
OFFICE OF ECONOMIC OPPORTUNITY ..	31.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	66.5	75.2	83.3	76.2	83.2	90.5	101.8	103.6	112.7	107.6	113.7
ALL OTHER AGENCIES	31.4	33.2	31.4	31.7	36.9	28.8	38.2	38.2	34.0	35.6	49.6

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-122. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY SELECTED AGENCY: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL AGENCIES	11,218.7	11,234.9	12,309.1	13,160.3	15,468.9	16,780.5	18,442.7	20,083.0	22,704.6	26,359.1	29,708.9
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	12.4	13.6	18.1	20.2	22.9	26.8	31.1	30.2	33.0	32.0	30.7
DEPARTMENT OF COMMERCE, TOTAL 1/	60.4	51.4	71.0	73.1	68.6	90.9	89.9	88.1	3,583.2	3,102.2	2,493.7
DEPARTMENT OF DEFENSE, TOTAL	6,968.1	6,986.0	7,581.5	8,127.2	9,247.5	9,729.6	10,492.1	11,719.2	13,907.7	17,719.1	21,193.6
DEPARTMENT OF THE ARMY	1,636.5	1,643.4	1,560.4	1,651.3	2,043.9	2,139.1	2,320.1	2,500.7	2,707.7	3,118.7	3,885.7
DEPARTMENT OF THE NAVY	2,268.4	2,317.2	2,693.7	2,890.1	3,320.0	3,472.1	3,767.7	4,095.0	4,308.0	5,049.6	5,400.1
DEPARTMENT OF THE AIR FORCE	2,932.6	2,874.6	3,157.7	3,344.3	3,605.3	3,813.6	4,033.4	4,673.7	6,351.9	8,763.4	10,698.8
DEFENSE AGENCIES	105.6	126.6	145.9	217.5	248.0	276.2	341.7	411.9	499.	736.6	1,150.6
DIRECTOR OF TEST & EVALUATION	25.1	24.2	23.9	24.1	30.2	28.6	29.3	37.9	41.	50.9	58.4
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	72.9	51.8	N/A	N/A	N/A
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	2,645.0	3,142.6	3,506.9	3,476.4	N/A	N/A	N/A
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	393.4	443.4	472.6	432.8	409.0	466.5	N/A	N/A	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	489.2	447.4	434.9	413.8	414.5
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	39.5	31.0	28.5	30.6	19.4	39.2	44.1	36.4	31.4	21.5	18.6
DEPT OF THE INTERIOR, TOTAL	83.6	48.9	69.3	73.7	58.7	75.5	66.3	56.8	57.3	53.6	46.0
DEPARTMENT OF JUSTICE, TOTAL	26.2	16.1	25.4	15.5	10.1	15.2	14.1	12.7	7.0	10.8	6.7
DEPARTMENT OF LABOR, TOTAL	6.6	6.6	10.1	10.5	10.8	72.1	94.9	101.6	4.0	1.6	.5
DEPARTMENT OF STATE, TOTAL	1.6	4.7	5.4	14.2	23.1	36.1	.5	.3	.2	-	-
DEPT OF TRANSPORTATION, TOTAL	233.4	308.0	257.7	263.4	302.8	341.8	303.1	278.8	327.0	258.7	293.2
DEPT OF THE TREASURY, TOTAL	.6	.7	1.3	2.3	2.7	5.8	4.8	6.3	6.1	5.6	3.4
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	938.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN	N/A	1,024.2	1,453.9	1,717.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY	106.3	72.9	115.9	103.7	90.2	132.0	151.1	99.9	107.4	100.5	70.1
FOUNDATION FOR EDUCATION ASST 2/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	51.1	43.4	42.4
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	39.6	69.7	47.8	54.4	40.4
NAT'L AERONAUTICS & SPACE ADMIN	2,267.0	2,156.5	2,129.3	2,224.0	2,497.3	2,530.2	2,959.8	3,474.4	3,999.4	4,456.5	4,981.2
NATIONAL SCIENCE FOUNDATION	15.9	36.2	25.0	13.5	8.7	5.3	7.9	8.1	6.1	-	-
OFFICE OF ECONOMIC OPPORTUNITY	55.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	4.5	6.1	7.7	12.6	14.7	14.6	15.6	15.5	16.7	14.4	15.0
ALL OTHER AGENCIES	5.3	28.7	36.4	25.5	37.3	56.5	58.7	109.4	84.4	71.1	58.9

1/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF ENERGY BE REPLACED BY THE ENERGY RESEARCH AND TECHNOLOGY ADMINISTRATION WITHIN THE DEPARTMENT OF COMMERCE.

2/ THE 1983 BUDGET PROPOSED THAT THE DEPARTMENT OF EDUCATION BE REPLACED BY THE FOUNDATION FOR EDUCATION ASSISTANCE.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-123. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY PERFORMER: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

PERFORMER	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL	16,800.2	17,410.1	19,038.8	20,779.7	23,983.0	26,387.3	28,977.7	31,680.4	34,917.4	38,954.1	42,973.8
FEDERAL INTRAMURAL 1/	4,762.2	4,910.9	5,354.0	5,768.7	6,104.6	6,920.0	7,562.9	7,929.4	8,728.8	9,645.1	10,164.3
INDUSTRIAL FIRMS 2/	8,313.6	8,345.2	9,126.9	10,154.1	12,248.1	13,052.4	14,140.6	15,830.0	17,674.5	20,689.2	23,884.5
UNIVERSITIES AND COLLEGES	1,916.6	2,214.0	2,411.4	2,551.8	2,908.9	3,377.6	3,894.1	4,276.9	4,477.9	4,583.5	4,720.0
FFRDCS ADMINISTERED BY UNIVERSITIES	725.3	789.1	935.1	1,061.1	1,326.8	1,325.6	1,511.0	1,591.6	1,828.5	1,889.8	1,962.8
OTHER NONPROFIT INSTITUTIONS 2/	761.2	871.5	922.3	939.6	1,068.4	1,320.1	1,404.3	1,575.7	1,645.4	1,602.9	1,723.9
ALL OTHER PERFORMERS	321.2	279.4	289.2	304.3	326.2	391.6	464.8	476.7	562.2	543.7	518.3

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDC'S) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-124. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY PERFORMER: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

PERFORMER	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL	5,581.4	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	12,595.0	13,264.9
FEDERAL INTRAMURAL 1/	2,088.5	2,270.2	2,463.8	2,879.2	2,957.7	3,220.8	3,481.2	3,666.3	4,034.2	4 152.3	4,402.7
INDUSTRIAL FIRMS 2/	956.0	972.8	1,145.9	1,279.5	1,559.4	1,886.6	2,006.9	2,388.6	2,309.7	2,392.3	2,545.1
UNIVERSITIES AND COLLEGES	1,691.1	1,958.3	2,078.8	2,249.7	2,583.5	2,928.0	3,333.4	3,699.1	3,920.1	3,996.9	4,130.1
FFRDCS ADMINISTERED BY UNIVERSITIES	355.2	374.0	425.5	548.3	670.3	714.9	800.6	851.2	940.6	1,019.2	1,107.5
OTHER NONPROFIT INSTITUTIONS 2/	366.4	464.9	459.5	492.9	567.7	657.8	696.0	750.2	772.9	785.1	814.9
ALL OTHER PERFORMERS	124.3	135.1	156.2	169.8	175.5	198.8	216.9	242.1	235.3	249.2	264.4

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDC'S) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-125. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY PERFORMER: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

PERFORMER	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL	2,232.0	2,387.7	2,588.4	2,767.5	3,258.6	3,698.6	4,192.7	4,674.2	5,041.3	5,310.8	5,765.2
FEDERAL INTRAMURAL 1/	608.1	695.9	733.5	786.0	914.1	1,029.3	1,089.1	1,182.5	1,301.8	1,396.2	1,541.6
INDUSTRIAL FIRMS 2/	215.5	155.5	166.4	190.9	261.2	313.1	343.7	395.6	366.2	397.0	471.3
UNIVERSITIES AND COLLEGES	1,048.2	1,144.7	1,260.6	1,341.7	1,555.1	1,759.2	2,079.9	2,320.3	2,503.2	2,618.0	2,758.9
FFRDCS ADMINISTERED BY UNIVERSITIES	229.0	223.1	257.5	284.9	324.1	356.8	393.6	436.8	490.6	514.2	590.8
OTHER NONPROFIT INSTITUTIONS 2/	101.9	133.3	142.1	134.4	168.2	198.5	247.0	287.0	321.8	323.9	339.3
ALL OTHER PERFORMERS	29.3	35.2	28.3	29.5	36.0	41.7	39.3	52.0	57.7	61.5	63.4

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDC'S) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-126. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY PERFORMER: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

PERFORMER	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL	3,349.4	3,787.6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5	7,284.1	7,499.7
FEDERAL INTRAMURAL 1/	1,480.4	1,574.3	1,730.3	2,093.1	2,043.5	2,191.5	2,392.1	2,493.8	2,732.4	2,756.1	2,861.2
INDUSTRIAL FIRMS 2/	740.5	817.3	979.6	1,088.6	1,298.2	1,573.4	1,663.2	1,913.0	1,943.5	1,995.3	2,073.7
UNIVERSITIES AND COLLEGES	642.9	813.5	818.2	908.0	1,028.4	1,168.8	1,253.5	1,378.8	1,416.9	1,378.9	1,371.3
FFRDCS ADMINISTERED BY UNIVERSITIES	126.2	150.9	168.0	263.4	346.2	358.1	407.0	414.3	450.0	504.9	516.8
OTHER NONPROFIT INSTITUTIONS 2/	264.5	331.6	317.4	358.5	399.5	459.2	449.0	463.2	451.1	461.2	475.7
ALL OTHER PERFORMERS	95.0	99.9	127.9	140.2	139.5	157.1	177.6	190.1	177.6	187.8	201.0

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDC'S) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-127. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY PERFORMER: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

PERFORMER	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL	11,218.7	11,234.9	12,309.1	13,160.3	15,468.9	16,780.5	18,442.7	20,083.0	22,704.6	26,359.1	29,708.9
FEDERAL INTRAMURAL 1/	2,673.7	2,640.7	2,890.2	2,889.6	3,147.0	3,699.2	4,081.7	4,263.1	4,694.6	5,492.8	5,761.5
INDUSTRIAL FIRMS 2/	7,357.6	7,372.3	7,980.9	8,874.7	10,688.7	11,165.8	12,133.6	13,441.4	15,364.9	18,296.9	21,339.4
UNIVERSITIES AND COLLEGES	225.5	255.7	332.7	302.1	325.4	449.6	560.7	577.9	557.8	586.6	589.9
FFRDCS ADMINISTERED BY UNIVERSITIES	370.1	415.2	509.6	512.8	656.5	610.8	710.4	740.4	887.9	870.6	855.2
OTHER NONPROFIT INSTITUTIONS 2/	394.8	406.6	462.8	446.7	500.7	662.3	708.4	825.5	872.5	817.8	909.0
ALL OTHER PERFORMERS	196.9	144.4	133.0	134.5	150.7	192.8	247.9	234.7	326.9	294.5	253.9

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDC'S) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-128. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY FIELD OF SCIENCE: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

FIELD OF SCIENCE	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL FIELDS	5,581.4	6,175.2	6,729.7	7,619.3	8,514.1	9,606.8	10,535.0	11,597.4	12,212.8	12,595.0	13,264.9
LIFE SCIENCES	1,931.1	2,265.1	2,455.2	2,649.7	3,007.7	3,427.1	3,848.3	4,192.3	4,435.6	4,593.0	4,735.0
PSYCHOLOGY	109.9	133.4	139.2	144.0	156.2	193.2	197.4	199.0	208.9	214.8	258.0
PHYSICAL SCIENCES	981.7	1,016.1	1,096.6	1,258.9	1,530.2	1,645.6	1,792.6	2,000.6	2,220.5	2,510.1	2,846.3
ENVIRONMENTAL SCIENCES	580.5	636.3	727.3	769.3	906.0	1,024.6	1,101.0	1,261.0	1,121.1	1,092.8	1,097.7
MATHEMATICS & COMPUTER SCIENCES	114.8	114.3	125.3	157.8	195.9	216.3	210.3	240.9	278.9	310.6	356.5
ENGINEERING	1,370.6	1,563.7	1,717.8	2,068.7	2,112.9	2,404.6	2,571.6	2,830.1	3,071.5	3,136.9	3,172.3
SOCIAL SCIENCES	298.8	292.2	301.8	392.5	426.1	489.5	527.3	523.8	497.4	405.8	397.8
OTHER SCIENCES, NEC	194.0	154.1	166.6	178.6	179.1	205.8	286.6	349.6	378.8	331.1	401.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-129. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY FIELD OF SCIENCE: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

FIELD OF SCIENCE	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL FIELDS	2,232.0	2,387.7	2,588.4	2,767.5	3,258.6	3,698.8	4,192.7	4,674.2	5,041.3	5,310.8	5,765.2
LIFE SCIENCES	888.4	1,032.2	1,115.9	1,222.0	1,383.4	1,588.4	1,891.8	2,054.4	2,223.8	2,330.0	2,428.3
PSYCHOLOGY	45.4	46.1	58.6	45.5	55.7	84.0	75.1	84.2	91.0	92.2	100.0
PHYSICAL SCIENCES	628.2	649.6	709.0	721.4	890.0	941.4	1,050.0	1,220.6	1,324.9	1,432.0	1,650.4
ENVIRONMENTAL SCIENCES	273.4	291.6	280.8	294.3	387.5	451.3	457.3	522.4	532.8	523.7	559.4
MATHEMATICS & COMPUTER SCIENCES	60.1	52.7	62.0	81.8	83.4	97.7	104.2	116.3	140.4	164.9	185.5
ENGINEERING	220.8	214.9	262.8	272.8	337.7	376.0	434.7	465.2	526.0	587.9	655.3
SOCIAL SCIENCES	80.2	74.8	73.8	86.4	95.5	124.3	129.7	147.2	137.0	121.5	124.3
OTHER SCIENCES, NEC	35.6	25.7	25.5	43.1	25.5	35.4	50.0	63.9	65.4	58.6	62.0

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-130. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY FIELD OF SCIENCE: FISCAL YEARS 1973-83

(MILLIONS OF DOLLARS)

FIELD OF SCIENCE	1973	1974	1975	1976	1977	1978	1979	1980	1981	ESTIMATES 1982	ESTIMATES 1983
TOTAL, ALL FIELDS	3,349.4	3,787.6	4,141.3	4,851.9	5,255.5	5,908.2	6,342.3	6,923.2	7,171.5	7,284.1	7,499.7
LIFE SCIENCES	1,042.7	1,233.0	1,339.3	1,427.7	1,624.4	1,838.7	1,956.5	2,137.9	2,211.8	2,263.1	2,306.7
PSYCHOLOGY	64.6	87.3	80.6	98.5	100.5	109.2	122.3	114.8	117.9	122.5	158.0
PHYSICAL SCIENCES	353.5	366.5	387.7	537.5	640.2	704.2	742.6	780.0	895.6	1,078.0	1,195.9
ENVIRONMENTAL SCIENCES	307.1	344.7	446.5	475.0	518.5	573.3	643.7	738.6	588.2	569.0	538.3
MATHEMATICS & COMPUTER SCIENCES	54.7	61.5	63.3	76.0	112.5	118.5	106.1	124.7	138.6	145.6	171.0
ENGINEERING	1,149.8	1,348.9	1,454.9	1,795.9	1,775.2	2,028.6	2,137.0	2,364.9	2,545.4	2,549.0	2,516.9
SOCIAL SCIENCES	218.6	217.4	228.1	306.0	330.6	365.1	397.6	376.6	360.5	284.3	273.5
OTHER SCIENCES, NEC	158.4	128.4	141.0	135.4	153.6	170.4	236.1	285.7	313.5	272.5	339.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-131. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEARS 1970-81

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
TOTAL	14,980.9	15,239.8	16,261.8	16,486.1	16,990.7	18,542.3	20,247.4	23,373.7	25,619.8	27,916.8	30,477.3	33,726.5
NEW ENGLAND	1,000.8	1,145.0	1,259.8	1,264.4	1,561.8	1,650.5	1,716.2	1,963.7	2,231.1	2,685.1	2,814.4	3,196.0
CONNECTICUT	160.0	149.9	169.2	193.9	233.7	269.7	239.4	291.8	299.8	328.4	470.3	485.0
MAINE	13.3	13.6	16.3	9.6	10.5	11.9	15.6	18.3	25.4	23.1	25.9	24.4
MASSACHUSETTS	760.9	883.2	961.2	953.6	1,188.3	1,228.6	1,284.9	1,474.4	1,693.3	2,062.3	2,066.7	2,430.6
NEW HAMPSHIRE	27.3	34.0	21.5	30.6	29.3	33.6	34.7	32.6	68.7	94.1	50.2	54.8
RHODE ISLAND	29.9	50.5	68.9	59.3	74.9	75.1	101.8	110.1	120.3	140.7	149.9	182.5
VERMONT	9.5	13.7	22.8	17.5	25.1	31.6	39.7	36.6	23.7	36.5	51.3	18.7
MIDDLE ATLANTIC	2,516.0	2,413.5	2,481.0	2,206.7	2,160.2	2,281.3	2,439.1	2,608.1	2,807.2	3,112.3	3,260.0	3,416.0
NEW JERSEY	741.7	745.1	763.1	645.2	473.8	442.0	495.7	566.3	522.5	649.3	729.4	775.4
NEW YORK	1,235.6	1,119.5	1,075.6	932.6	1,026.3	1,058.6	1,107.4	1,204.3	1,284.1	1,363.1	1,471.2	1,557.7
PENNSYLVANIA	538.8	548.9	642.3	628.8	660.1	780.7	836.0	837.5	995.7	1,099.9	1,059.4	1,082.9
EAST NORTH CENTRAL	1,038.8	1,121.7	1,179.6	1,082.8	1,263.8	1,377.3	1,439.5	1,726.3	2,010.4	2,097.8	2,316.2	2,349.3
ILLINOIS	239.6	249.1	291.0	287.6	325.4	371.3	414.3	517.2	564.3	547.2	599.9	572.6
INDIANA	91.9	74.6	100.5	82.9	95.0	92.8	92.4	102.8	108.1	122.0	162.4	170.1
MICHIGAN	162.8	187.3	186.3	153.8	196.6	248.9	222.2	316.6	367.8	264.4	377.5	357.2
OHIO	457.3	518.1	521.7	478.8	567.3	585.2	627.8	694.8	858.3	1,053.2	1,054.7	1,117.2
WISCONSIN	87.1	92.6	80.1	79.6	79.6	79.2	82.8	94.8	111.9	111.0	121.7	132.2
WEST NORTH CENTRAL	475.4	786.0	906.0	830.8	607.4	574.0	681.6	974.8	1,250.7	1,277.8	1,618.5	1,829.6
IOWA	32.7	32.9	37.9	38.5	46.5	47.8	48.5	60.1	68.3	84.9	121.7	147.4
KANSAS	16.6	24.3	31.3	30.4	29.4	32.8	32.1	36.3	106.6	136.3	353.6	471.0
MINNESOTA	109.3	102.8	127.0	120.2	106.9	123.2	153.3	186.5	177.7	202.8	261.6	309.0
MISSOURI	291.2	596.9	679.5	608.1	387.0	330.0	404.3	639.6	827.3	778.9	801.6	820.4
NEBRASKA	10.6	10.4	11.7	13.4	14.7	20.3	21.4	24.5	33.5	31.3	31.6	31.7
NORTH DAKOTA	8.9	9.1	10.5	9.5	10.5	13.0	14.8	19.3	28.3	33.4	38.7	40.1
SOUTH DAKOTA	6.1	9.6	8.1	10.7	12.4	6.8	7.3	8.5	9.1	10.2	9.9	10.2
SOUTH ATLANTIC	2,899.3	3,228.3	3,560.6	3,706.0	3,752.8	3,993.2	4,228.7	4,879.6	5,288.7	5,726.9	6,430.2	7,238.3
DELAWARE	16.3	13.0	17.4	40.8	10.4	10.0	8.0	15.3	11.1	14.4	20.8	25.9
DISTRICT OF COLUMBIA	468.5	481.9	462.1	490.0	552.3	580.3	570.3	729.8	792.3	768.4	807.0	932.3
FLORIDA	824.8	890.4	1,022.5	952.0	783.2	796.8	788.3	919.2	947.6	1,017.3	1,323.5	1,634.0
GEORGIA	72.3	78.8	71.9	66.8	70.9	81.0	92.3	111.2	155.7	184.4	169.8	195.0
MARYLAND	1,063.4	1,201.2	1,318.1	1,434.8	1,528.9	1,610.3	1,811.2	2,031.4	2,126.0	2,359.8	2,595.0	2,783.4
NORTH CAROLINA	63.9	82.7	83.3	101.7	110.0	116.9	139.1	154.7	192.3	220.9	227.7	259.8
SOUTH CAROLINA	17.8	23.4	26.3	23.7	28.8	24.6	30.8	67.2	118.3	114.3	87.5	96.1
VIRGINIA	352.8	424.9	529.6	567.9	642.3	726.8	751.5	800.2	872.1	940.3	1,047.1	1,160.5
WEST VIRGINIA	19.6	32.1	29.4	28.2	25.9	46.5	37.2	50.6	73.3	107.2	152.0	151.2
EAST SOUTH CENTRAL	599.7	618.3	638.9	681.5	726.7	745.6	885.2	1,131.9	1,277.1	1,347.3	1,492.8	1,682.7
ALABAMA	357.2	360.0	359.0	376.5	377.4	363.1	374.4	433.7	483.7	559.6	552.7	572.6
KENTUCKY	20.4	23.1	32.1	38.1	31.3	35.2	51.0	56.6	62.1	43.0	107.9	101.0
MISSISSIPPI	28.3	46.7	60.7	57.5	76.3	57.9	71.6	95.4	87.1	100.7	109.3	125.5
TENNESSEE	193.8	188.5	187.1	209.5	241.7	289.4	388.2	546.3	644.3	644.1	722.9	883.6
WEST SOUTH CENTRAL	834.9	733.1	798.9	794.0	772.1	874.2	1,021.9	1,127.3	1,389.0	1,454.2	1,585.4	1,691.2
ARKANSAS	9.8	20.8	13.2	16.6	14.2	23.3	26.5	24.3	42.4	37.3	30.0	31.2
LOUISIANA	146.5	90.1	103.6	91.6	75.7	101.8	126.1	156.5	162.7	209.1	269.8	331.8
OKLAHOMA	29.5	26.3	29.1	34.8	29.9	34.5	32.1	48.2	105.0	70.1	94.5	82.4
TEXAS	649.1	595.9	653.0	651.0	652.2	714.5	837.2	898.3	1,078.9	1,137.7	1,191.3	1,245.9
MOUNTAIN	1,137.7	1,127.4	1,214.4	1,290.6	1,213.0	1,281.0	1,400.4	1,727.3	2,077.9	2,262.7	2,568.2	3,016.4
ARIZONA	72.8	88.7	89.9	94.8	99.5	116.3	122.5	142.5	163.4	201.4	334.6	367.7
COLORADO	274.1	264.2	369.1	410.8	323.3	267.9	248.6	324.2	393.2	442.2	573.7	632.8
IDAHO	75.0	75.3	75.9	81.8	52.2	67.2	72.7	119.8	107.0	147.1	147.7	119.5
MONTANA	11.6	17.6	19.0	19.9	13.6	28.4	29.8	47.8	27.5	41.6	45.7	45.4
NEVADA	190.9	159.0	140.3	143.1	112.5	150.0	179.7	184.3	196.7	222.1	214.5	263.0
NEW MEXICO	445.0	458.7	451.5	462.8	532.0	554.8	626.3	751.4	987.4	955.5	954.2	1,224.1
UTAH	61.1	55.8	58.9	66.7	68.7	80.1	101.5	133.2	161.8	211.6	243.9	305.7
WYOMING	7.2	8.1	9.9	10.7	11.0	16.3	19.4	24.2	40.8	41.0	53.9	58.2
PACIFIC	4,404.1	4,004.9	4,158.2	4,562.2	4,864.3	5,692.5	6,369.4	7,148.2	7,208.1	7,855.6	8,272.8	9,220.8
ALASKA	43.2	58.2	46.0	41.8	25.3	36.4	37.6	38.1	48.7	45.9	42.5	51.8
CALIFORNIA	3,871.1	3,295.4	3,473.1	3,840.2	4,075.7	4,839.6	5,496.1	6,109.1	6,141.1	6,804.0	7,138.0	7,966.0
HAWAII	43.8	38.3	47.4	47.9	53.1	43.0	45.5	36.9	44.6	40.8	42.6	49.9
OREGON	33.8	41.9	53.7	64.3	59.9	79.0	84.6	84.9	95.3	100.1	97.9	105.6
WASHINGTON	412.2	571.2	537.9	567.9	650.4	694.6	705.6	879.1	878.3	864.8	951.8	1,047.5
OUTLYING AREAS	17.3	18.6	18.4	19.7	19.6	28.8	22.4	47.8	38.7	39.4	45.3	38.9
OFFICES ABROAD	56.8	42.9	46.1	47.4	49.1	43.9	43.0	38.6	45.9	57.7	73.5	47.2

NOTE: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D OBLIGATIONS IN THAT YEAR.

NOTE: (2) ALTHOUGH THE NON-GEOGRAPHIC HISTORICAL TABLES INCORPORATE CORRECTIONS TO PREVIOUSLY REPORTED DATA THAT HAVE BEEN SUBMITTED BY THE REPORTING AGENCIES, CORRESPONDING CORRECTIONS TO THE GEOGRAPHIC DISTRIBUTIONS ARE RARELY OBTAINABLE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-132. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEARS 1970-81

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
TOTAL	519.6	586.0	595.6	757.5	749.8	801.0	799.2	1,334.0	1,262.0	1,393.8	1,533.1	1,454.4
NEW ENGLAND	15.0	15.7	24.5	15.5	17.7	22.7	22.4	36.1	34.9	58.2	24.1	54.2
CONNECTICUT	2.8	1.5	2.7	2.4	5.2	3.8	1.9	3.9	2.3	12.3	1.0	9.2
MAINE	.1	-	.4	*	.2	*	*	.1	.1	.1	*	*
MASSACHUSETTS	10.7	9.7	16.1	8.4	9.5	11.0	14.0	24.4	28.7	36.9	20.4	35.7
NEW HAMPSHIRE	*	2.0	1.5	.4	1.1	2.9	2.0	2.4	1.3	5.4	*	7.7
RHODE ISLAND	1.3	2.1	2.8	4.2	.7	4.9	4.5	5.3	2.4	3.5	2.6	1.6
VERMONT	*	.4	1.1	.1	1.0	-	-	-	-	*	-	*
MIDDLE ATLANTIC	51.1	55.7	74.1	99.7	101.4	76.8	70.6	133.9	189.3	180.7	187.4	236.1
NEW JERSEY	5.6	5.0	14.9	5.3	2.5	11.5	22.1	64.8	96.7	64.8	60.5	55.7
NEW YORK	26.7	33.9	21.9	81.8	77.1	46.4	37.5	61.0	63.8	69.4	91.4	85.1
PENNSYLVANIA	19.2	16.8	37.3	12.6	21.8	18.9	11.0	8.1	28.8	46.5	35.5	95.2
EAST NORTH CENTRAL	119.9	100.1	85.5	129.7	69.7	48.3	66.5	114.6	108.7	96.4	123.3	152.6
ILLINOIS	94.7	85.2	68.1	84.3	42.9	29.6	45.2	52.0	72.9	61.9	71.5	74.1
INDIANA	.4	.8	.5	.3	.1	.1	.8	.6	.4	.7	.7	.9
MICHIGAN	3.8	.9	2.9	4.8	.2	.6	2.0	1.1	1.9	3.0	8.3	9.5
OHIO	20.3	10.1	13.0	39.1	19.6	15.1	13.6	60.4	23.9	28.0	40.3	65.2
WISCONSIN	.6	3.1	1.0	1.1	6.9	2.9	4.9	.5	9.6	2.9	2.5	3.0
WEST NORTH CENTRAL	9.3	10.8	8.1	4.7	26.9	5.8	3.6	3.6	7.6	12.4	53.5	7.1
IOWA	1.2	1.5	.8	1.1	.5	.7	1.1	1.5	2.3	2.2	2.9	2.1
KANSAS	.1	.2	.1	.2	.1	*	.1	.1	.2	*	.1	.1
MINNESOTA	.8	4.1	1.3	.5	23.4	.1	.5	.4	1.2	.8	.3	.5
MISSOURI	4.2	2.2	.7	.3	.8	4.1	.5	.9	1.2	5.6	40.9	1.8
NEBRASKA	.9	1.2	1.6	1.0	1.5	.4	1.0	.2	.3	.8	2.1	.6
NORTH DAKOTA	.1	.1	.2	.1	.2	.4	.5	.6	2.3	1.4	4.1	1.4
SOUTH DAKOTA	2.1	1.5	3.1	1.5	.4	-	-	*	.1	1.6	3.1	.7
SOUTH ATLANTIC	72.3	77.0	114.1	142.9	140.5	173.7	166.9	358.5	233.4	202.0	181.2	170.3
DELAWARE	*	-	*	*	.1	.1	-	*	*	-	.7	1.6
DISTRICT OF COLUMBIA	6.4	5.1	9.0	31.5	1.1	7.9	21.4	11.3	11.1	22.0	14.3	31.7
FLORIDA	33.2	30.8	47.7	40.1	51.7	96.0	76.3	155.2	81.1	46.0	46.7	25.5
GEORGIA	2.0	2.3	1.8	.7	.1	.5	.2	1.2	1.8	1.0	.6	1.6
MARYLAND	20.3	29.7	36.1	51.4	60.8	40.1	36.7	80.4	82.7	64.3	53.3	52.3
NORTH CAROLINA	3.1	.4	6.0	4.8	4.1	.3	.6	66.8	3.5	3.9	8.2	1.2
SOUTH CAROLINA	1.8	1.3	1.2	3.4	7.7	3.8	3.3	2.2	6.9	9.7	3.1	18.8
VIRGINIA	3.5	7.0	11.3	7.0	14.0	23.1	11.6	24.7	29.3	42.0	41.5	33.9
WEST VIRGINIA	1.9	.4	.9	4.2	.8	1.9	16.7	16.7	17.0	13.1	12.9	3.7
EAST SOUTH CENTRAL	16.8	18.3	27.7	55.4	54.7	52.5	76.9	54.7	55.9	65.1	134.7	109.6
ALABAMA	1.8	3.9	6.7	5.1	5.6	8.4	12.3	5.3	6.5	2.6	47.9	16.5
KENTUCKY	.8	.3	.1	*	.2	-	-	-	*	2.9	*	4.3
MISSISSIPPI	.8	.4	.4	13.0	15.2	4.8	4.1	11.5	6.0	3.8	6.6	3.4
TENNESSEE	13.4	13.7	20.5	37.4	33.6	39.3	60.5	37.8	43.4	55.8	80.1	85.5
WEST SOUTH CENTRAL	9.4	11.7	11.2	11.9	8.2	8.9	11.1	17.2	34.6	2.3	30.8	31.3
ARKANSAS	.1	*	.1	.2	.4	.7	.9	2.8	.9	.2	.7	.7
LOUISIANA	1.1	5.1	.5	.4	1.6	.3	2.3	3.6	20.9	16.7	12.6	14.1
OKLAHOMA	.1	.1	.2	.1	.1	.3	.2	.4	1.0	.6	3.2	2.7
TEXAS	8.1	6.5	10.4	11.1	6.1	7.6	7.8	10.4	11.8	9.7	14.2	13.9
MOUNTAIN	112.4	102.4	84.1	95.5	86.2	104.9	123.8	195.6	210.2	254.9	284.3	244.9
ARIZONA	1.6	1.3	2.3	.5	3.6	1.3	2.7	1.6	33.9	35.3	1.8	.4
COLORADO	5.2	8.2	16.2	21.9	7.5	4.9	12.0	12.7	11.6	9.7	35.6	26.9
IDAHO	23.0	20.3	5.4	6.3	11.0	16.2	19.7	26.1	35.6	41.8	45.1	11.9
MONTANA	*	.5	.1	.1	.1	.3	.1	.8	*	1.2	3.7	.1
NEVADA	17.2	16.9	17.5	14.4	9.2	11.7	11.7	14.8	18.5	24.2	22.4	82.9
NEW MEXICO	63.6	54.1	41.6	51.6	50.3	68.1	76.6	137.9	101.7	138.6	169.5	119.3
UTAH	1.0	.6	1.0	.5	4.1	2.1	.8	1.5	8.0	2.9	1.9	1.5
WYOMING	.6	.4	*	.2	*	.3	.2	.3	.9	1.2	4.3	2.0
PACIFIC	104.4	178.3	156.3	176.7	243.8	305.9	256.1	417.8	381.9	489.2	509.8	446.2
ALASKA	.5	1.4	.7	.5	.1	.9	.8	.6	.7	.8	.1	*
CALIFORNIA	85.9	119.8	123.4	128.0	141.1	151.1	147.3	303.3	259.5	400.2	377.4	355.4
HAWAII	.5	2.2	.9	.4	.4	6.2	2.8	.5	.7	.5	.2	.7
OREGON	2.3	1.2	1.2	.1	.1	1.2	2.0	*	2.6	.9	3.9	1.0
WASHINGTON	15.3	53.7	30.2	47.8	102.1	146.5	103.1	113.4	118.3	86.8	128.2	89.0
OUTLYING AREAS	3.5	5.2	1.8	1.4	.6	.5	.3	.1	1.7	.5	2.9	.7
OFFICES ABROAD	5.3	10.8	8.2	24.1	.2	1.1	1.0	1.9	3.9	7.1	1.1	1.3

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-PLANT-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D PLANT OBLIGATIONS IN THAT YEAR.

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SOURCE: NATIONAL SCIENCE FOUNDATION

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